TM11
DECmagtape system engineering drawings

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS

					M	AS	TE	R	DF	RΑ	W	IN	G	LI	S	T									
					UNIT VARIATIONS																				
MAINTENANCE MANUALS NO. TITLE				TM11-A	TM11-B																				
r		11-P	MAG TAPE CONT		Х	7	$\dagger$		$\Box$				$\dashv$		$\neg$		$\vdash$	+	$\dagger$	$\dagger$	十	T	$\vdash$	<u> </u>	$\dagger \dagger \parallel$
L																									
						$\perp$	_	igspace		_			_	_	_		4	4-	1	$\perp$	L	1	_	L	Ш
+			<u> </u>	$-\parallel$	-	$\dashv$	+	├	$\vdash$			_	$\dashv$	-+			-+	+-	+	+	+	+	-	<u> </u>	$\vdash$
H				+		$\dashv$	+	<del> </del>	Н	_			$\dashv$	$\dashv$	$\dashv$		+	十	+	$\dagger$	$\dagger$	╁		<del>                                     </del>	H
USED ON OPTIONS								<del>-</del>			<u> </u>		一												
L	PDP-11							_			_														
L																	<del> </del>								
H						$\dashv$				$\vdash$		· ·		t				<del> </del>				$\vdash$			
L						$\Box$																			
L			1 1					<del>-</del>		<u> </u>				Щ.				L				L		-	
	APP'D.	Μ.Ε. Α.Υ. Α. Υ.	Հ <b>ՀՀ</b> Ծայաւ ա. > <i>Ծ</i> արու <b>ու</b> հա	ر بات المالي	ر. بخ نج	1/10				K	DRN. G	Ö.		DATI	: 5- -71 : 5-		i c	i	t a		E	Q U ORF	I P I	A E	T N T
_	Q.	/86 0	-UM450010	စ္ပေး	; <del>-</del>	Ŋ				┢	ENG.			5-	, J-	170	TLE				MAY	NAND.	MASS	CHU	SETTS
REVISIONS	CHG	01000 00008 00000 00010	$\tilde{S}$	00022 00021 00022					<u> </u>	M. FRITZ 5-71 PROJENG DATE 5- M. FRITZ 5/71					1										
EVIS	-	0000	71 00011 -72 00013 572 00013 72 00015 73 00016 73 00016		<u> </u>						BECLOSS 5.7.7/				MAG TAPE CONT										
_	DATE									FIRST USED ON															
	-									PDP-11					SIZE CODE NUMBER  A M L TM3-1-0						*. ← →				
	Æ	<b>∢6</b> ∪ □ ¹	<u>თ</u> <b>თ</b> : თ	ະທ⊢⊃						SHEET 1 OF 3					DIST. TM11-0						T				

and appropriate for the contract of the contra

DRA 131 Dec 16-(325)-1048-N471

PRINT SET REV. NO. OF OPTION TITLE NO. LET. SHEETS D-DI-TM11-0-01 'F 1 DRAWING INDEX LIST D-BS-TM11-0-03 1 BUS CABIT INTERFACE A 1 MAG TAPL CABLE PRIOR JMPR MOD

1 TM11 MAIL ? PANEL CABLE CONN

C 1 CTART TAPE UNIT CONTROL

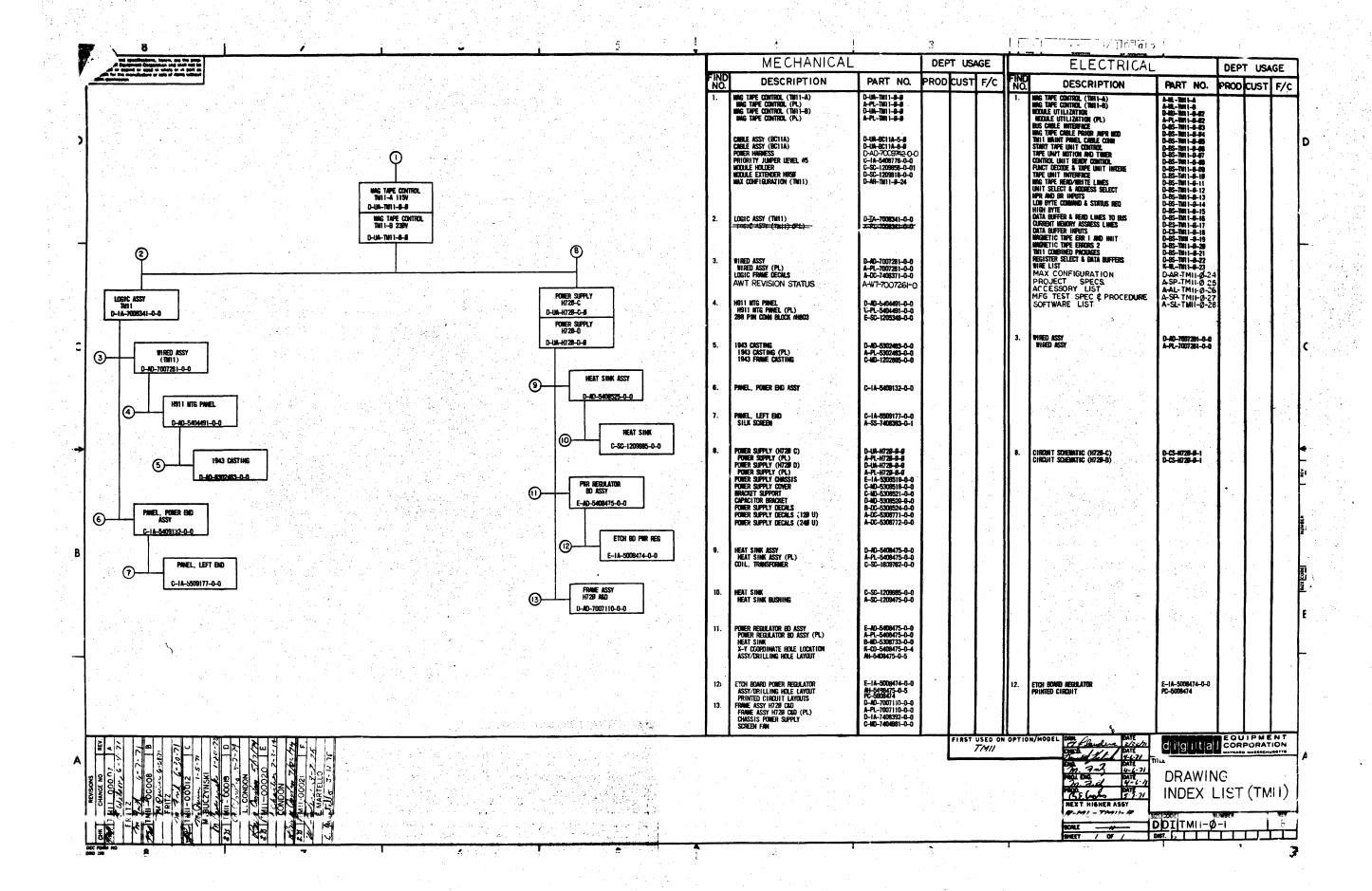
B 1 NON STOP CONTROL AND TIMER D-BS-TM11-0-04 D-BS-TMl1-0-05 P-BS-TM11-0-06 D-BS-TM11-0-07 D-BS-TM11-0-08 B 1 CONTROL UNIT READY
D 1 FULL DECODE & TAPE UNIT INTERF
1 TAPE UNIT INTERFACE
1 MAG TAPE (EAD/WRITE LINES D-BS-TM11-0-09 D-BS-TM11-0-10 D-BS-TM11-0-11 B 1 TAPE UNIT & REGISTER SELECT
A 1 NPR AND BR ENABLE
1 LOW BYTE COMMAND & STATUS REG
1 HIGH BYTE COMMAND & STATUS REG D-BS-TM11-0-12 D-BS-TM11-0-13 D-BS-TM11-0-14 D-BS-TM11-0-15 A 1 DATA BUFFER & READ LINES TO BUS D-BS-TM11-0-16 D-BS-TM11-0-17 B 1 DATA BFR CNTL & UNIBUS LINES A 1 DATA BUFFER INPUTS
E 1 BTE, ILC, INIT
C 1 MAGNETIC TAPE ERROR
F 1 TM11 COMBINED PACKA
C 1 REGISTER SELECT & D r-BS-TM11-0-18 D-BS-TM11-0-19 D-BS-TM11-0-20 D-BS-TM11-0-21 D-BS-TM11-0-22 B-CS-M688-0-01 MAGNETIC TAPE ERRORS TM11 COMBINED PACKACES REGISTER SELECT & DATA BUFFER # UNIBUS POWER FAIL DRIVERS C-CS-M105-0-1 B-CS-M149-0-1 # ADDRESS SELECTOR MODULE 9 x 2 NAND WIRED OR MATRIX D-CS-M239-0-1 THREE 4-BIT COUNTER REGISTER D-CS-M7821-0-1 INTERRUPT CONTROL MODULE B-CS-M784-0-1 UNIBUS RECEIVER MODULE B-CS-M785-0-1 D-CS-M795-0-1 D-CS-M797-0-1 UNITUS TRANSCEIVER MODULE WORD COUNT & CURRENT MEM ADDR REGISTER SELECT MODULE # C-CS-M798-0-1 # UNIBUS DRIVER D-CS-M796-0-1 х UNIBUS MASTER CONTROL ₽ U TITLE SHEET 2 OF 3 A ML MAG TAPE CONTROL TM11-0

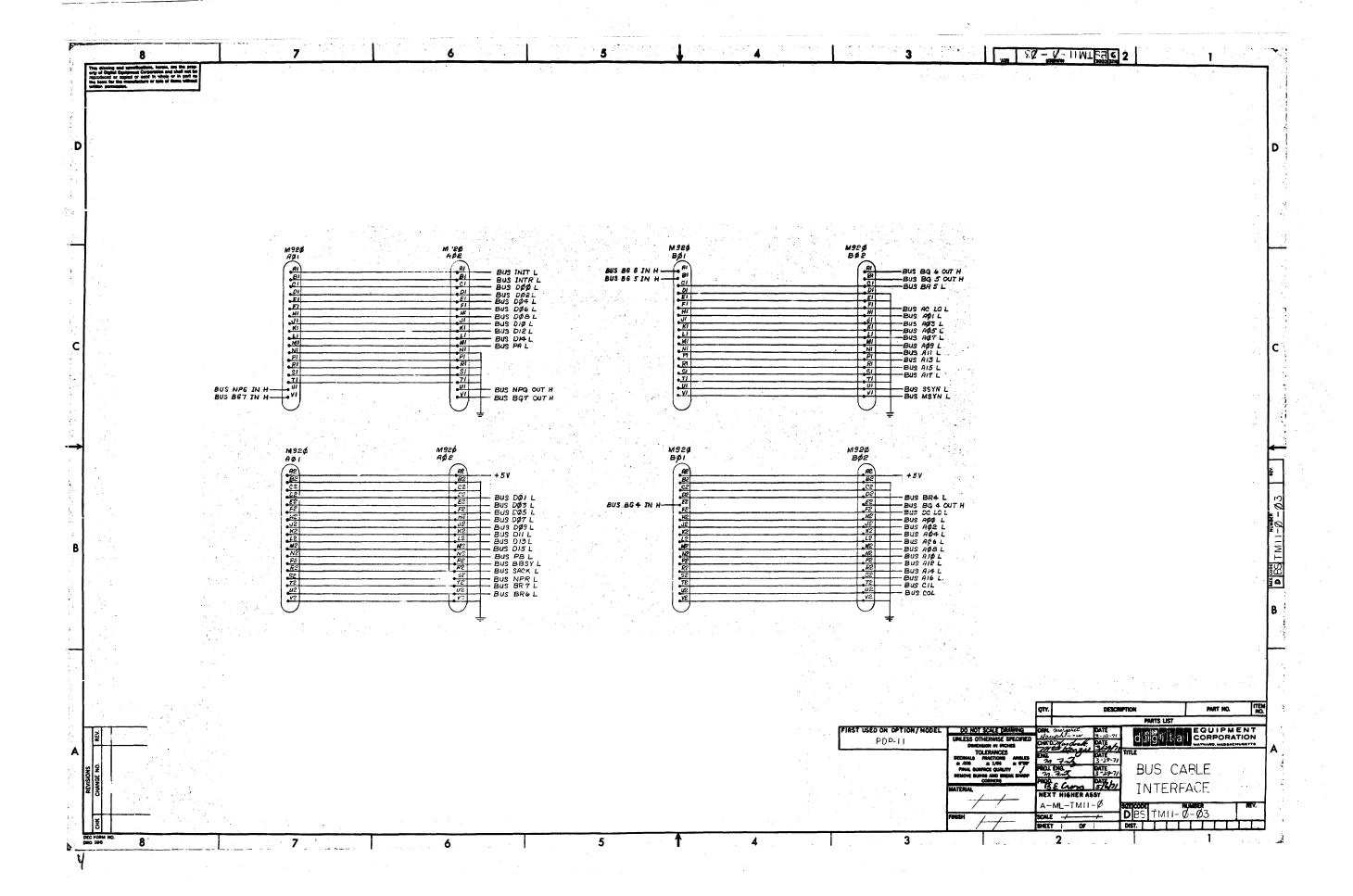
	PRINT SET			- management of the standard of			and the second of the second o	<del></del>		
						DWG. NO.		NO. OF	TITLE	OPTION NO.
Х						P-MU-TM11-0-02	F	1	MODULE UTILIZATION	
	┞╌┤									++
X	$\vdash$		-1		<del> </del> -	D-AR-TM11-0-24	Ε	1	MAX CONFIGURATION	
x				_		A-PI-TM11-0-02	F	1	MODULE UTILIZATION (PL)	
x						A-AL-TMll-0-26	В	1	ACCESSORY LIST	
× ×					E	D-UA-TM11-0-0 A-PL-TM11-0-0	<u> </u>	1	MAG TAPE CONTROL MAG TAPE CONTROL	+
х						D-AD-7007261-0-0	С	1	WIRED ASSY (TM11)	
Х						A-PL-7007261-0-0	С	_1	WIRED ASSY (TM11) (PL)	
x						D-TA-7008341-0-0	B_	ī	LOGIC ASSY (TMll)	
С		_				K-WL-TM11-0-23	T	1	WIRE LIST	
x		_				A-SP-TM11-0-25	B	23	PROJECT SPECIFICATIONS	
x	$\exists$					A-SL-TM11-0-28	A	1	SOFTWARE LIST (LIBKIT)	
х						B-CS-G736-0-1	#		PRIORITY JUMPER MODULE	+
Х		-			<u> </u>	B-CS-M163-0-1	#_		DUAL ECD DECODER	
X						A-WT-7007261-0	V		AWT REVISION STATUS	
	二									
_	$\exists$						_			
TITL	.E				L				SIZE CODE NUMBER	REV.
					MA	G TAPE CONTROL		I	SHEET 3 OF 3 A MI MILLION	1 111

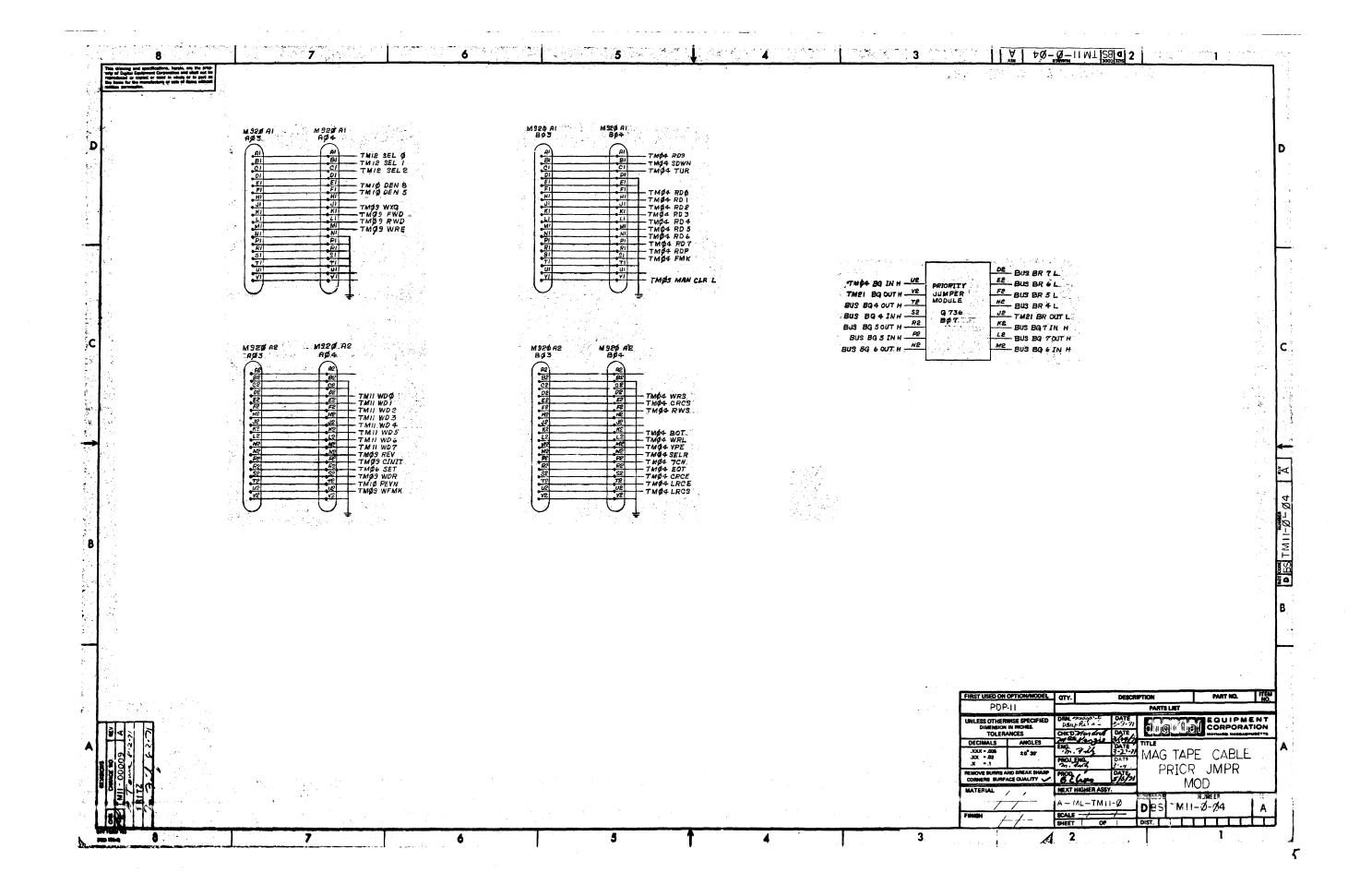
SHEET 3 OF 3 A ML

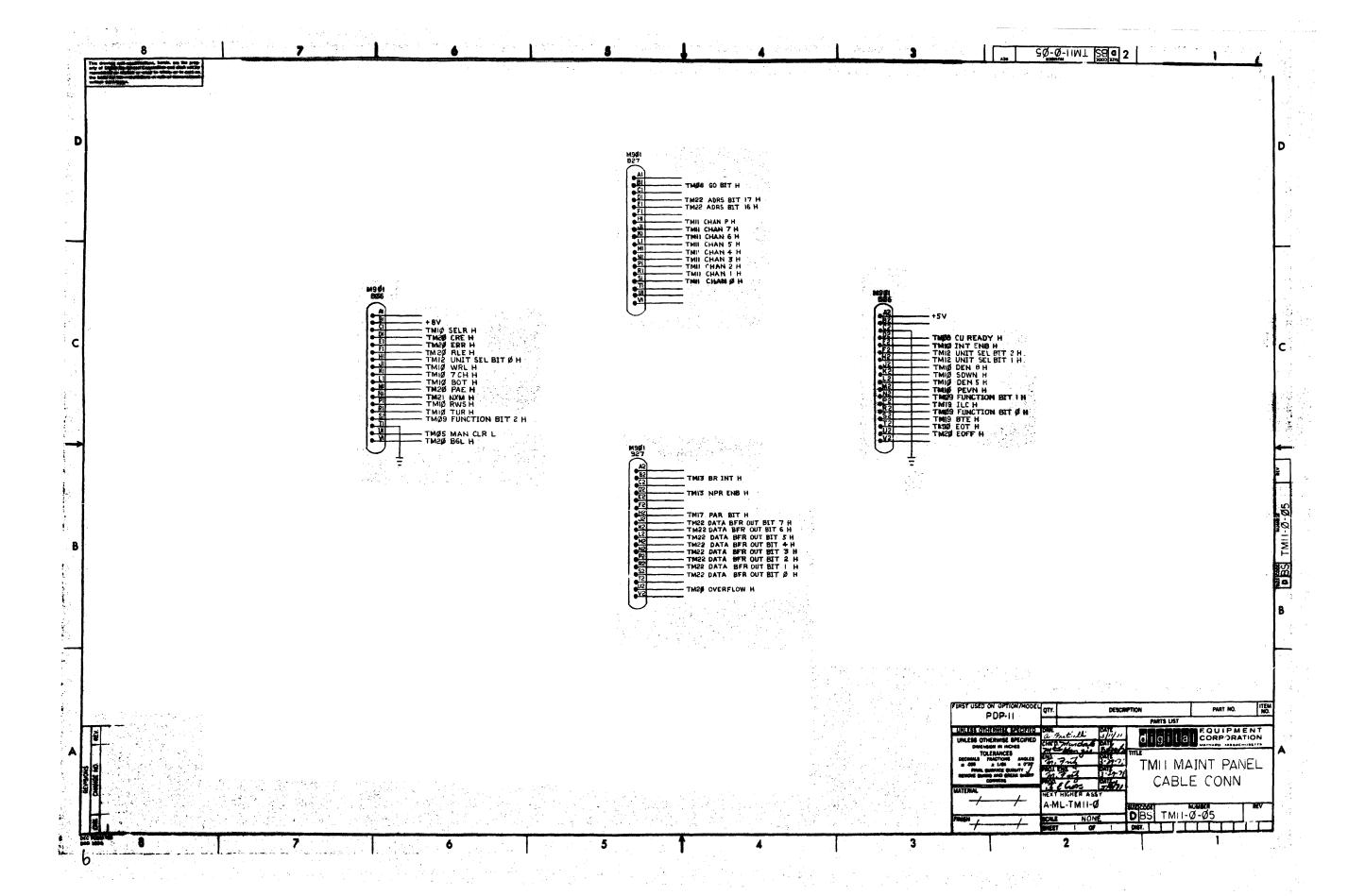
DRA 132

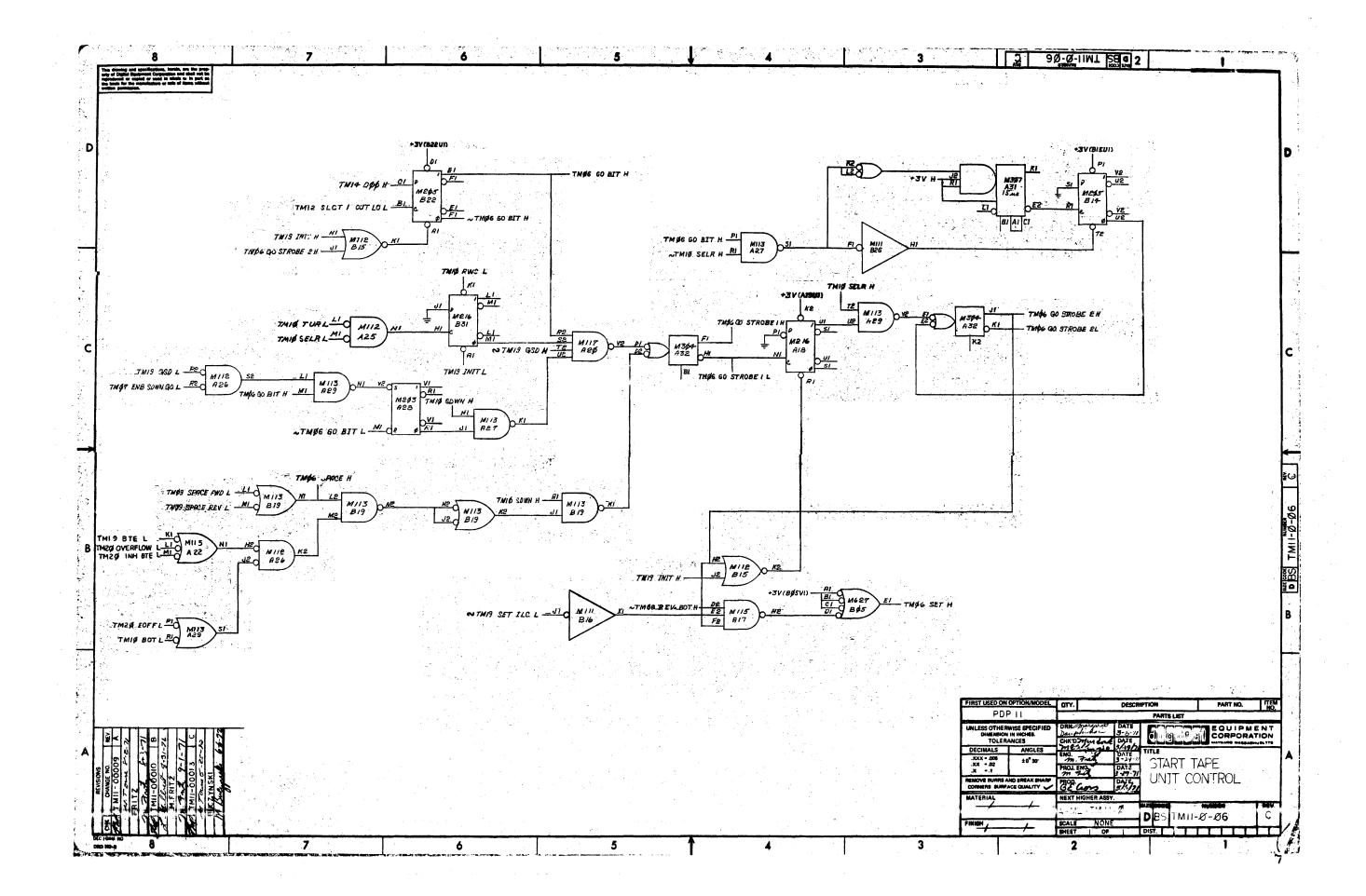
DEC 16-(325)-1048-1-N471

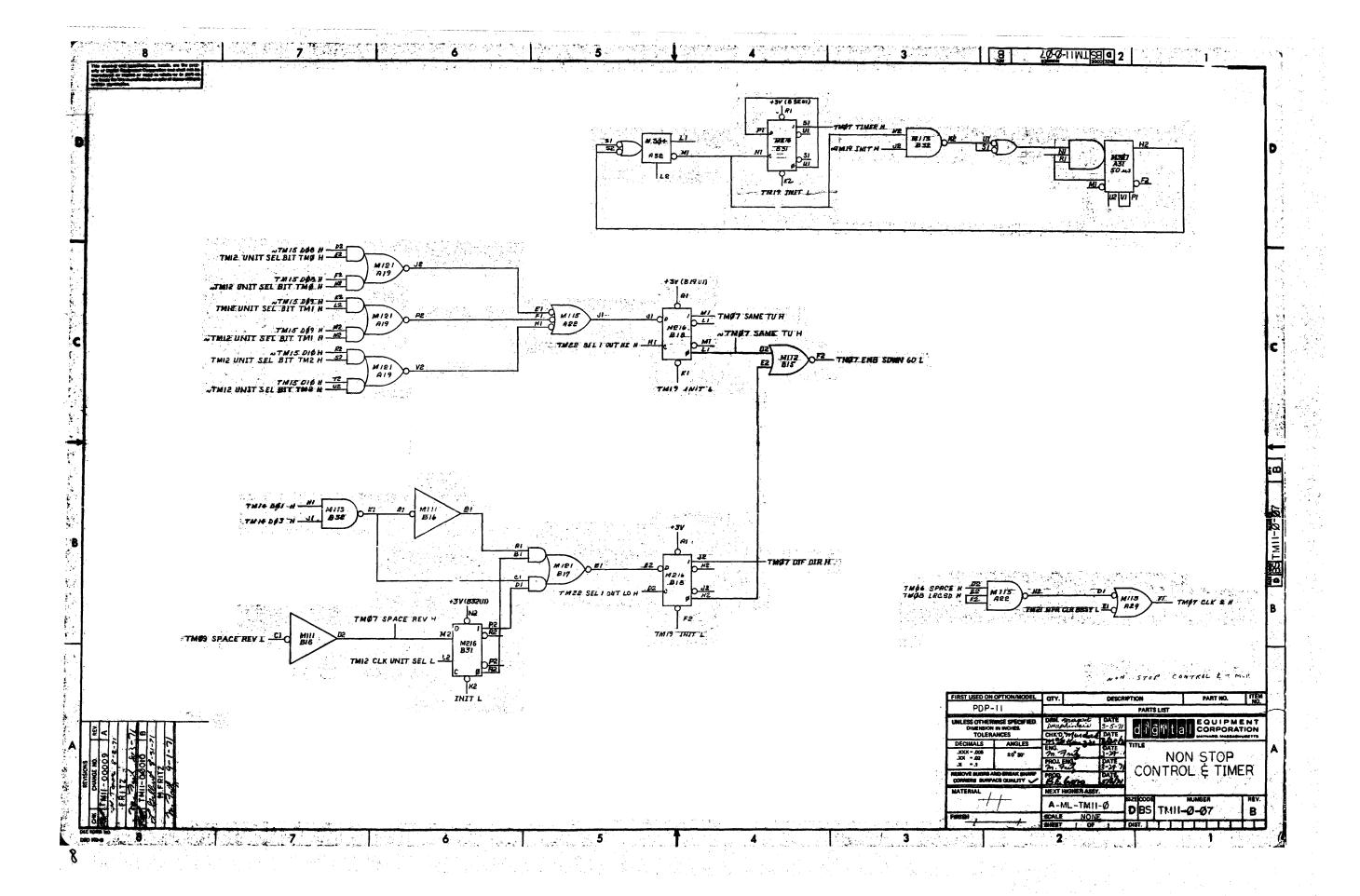


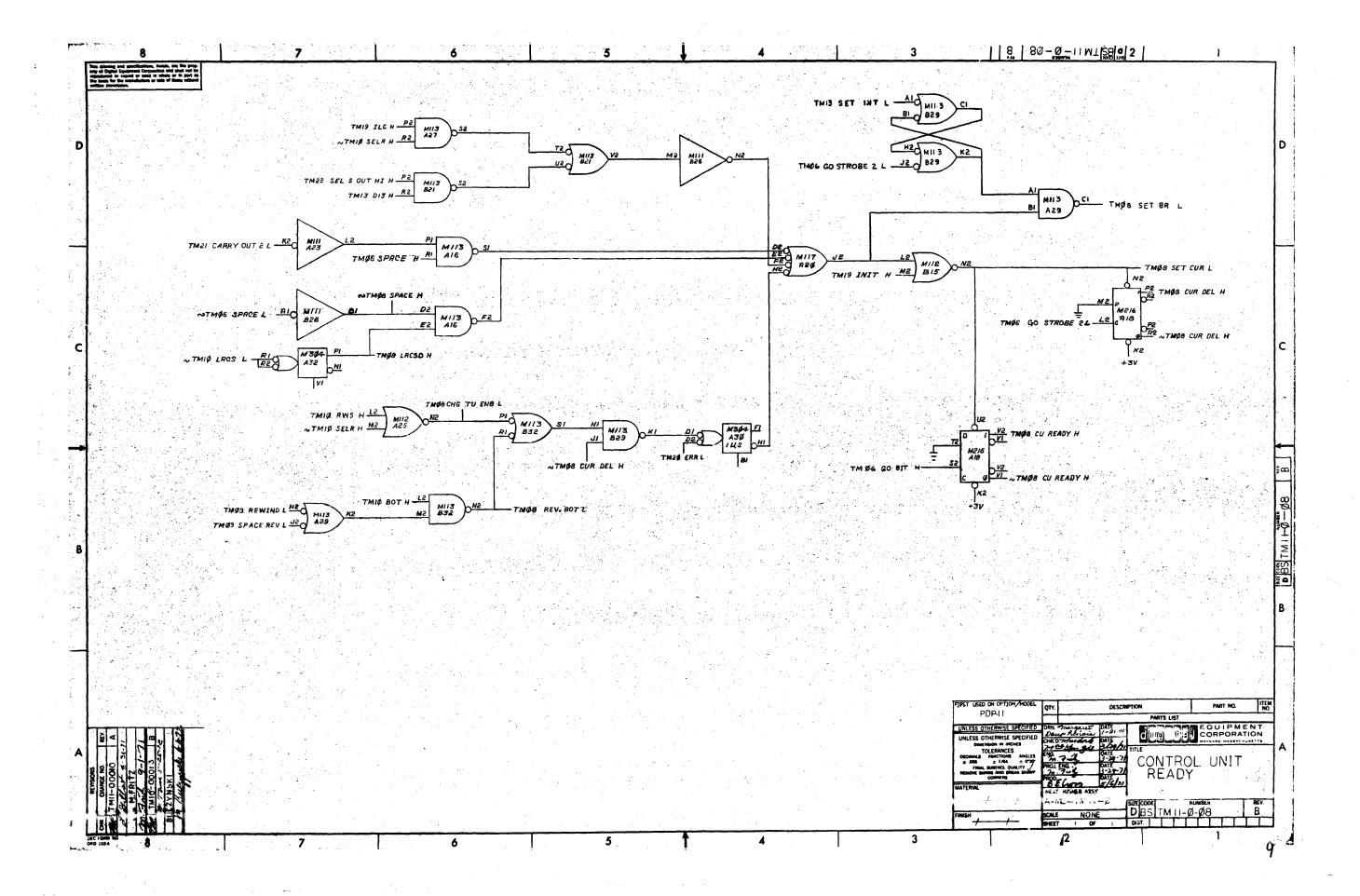


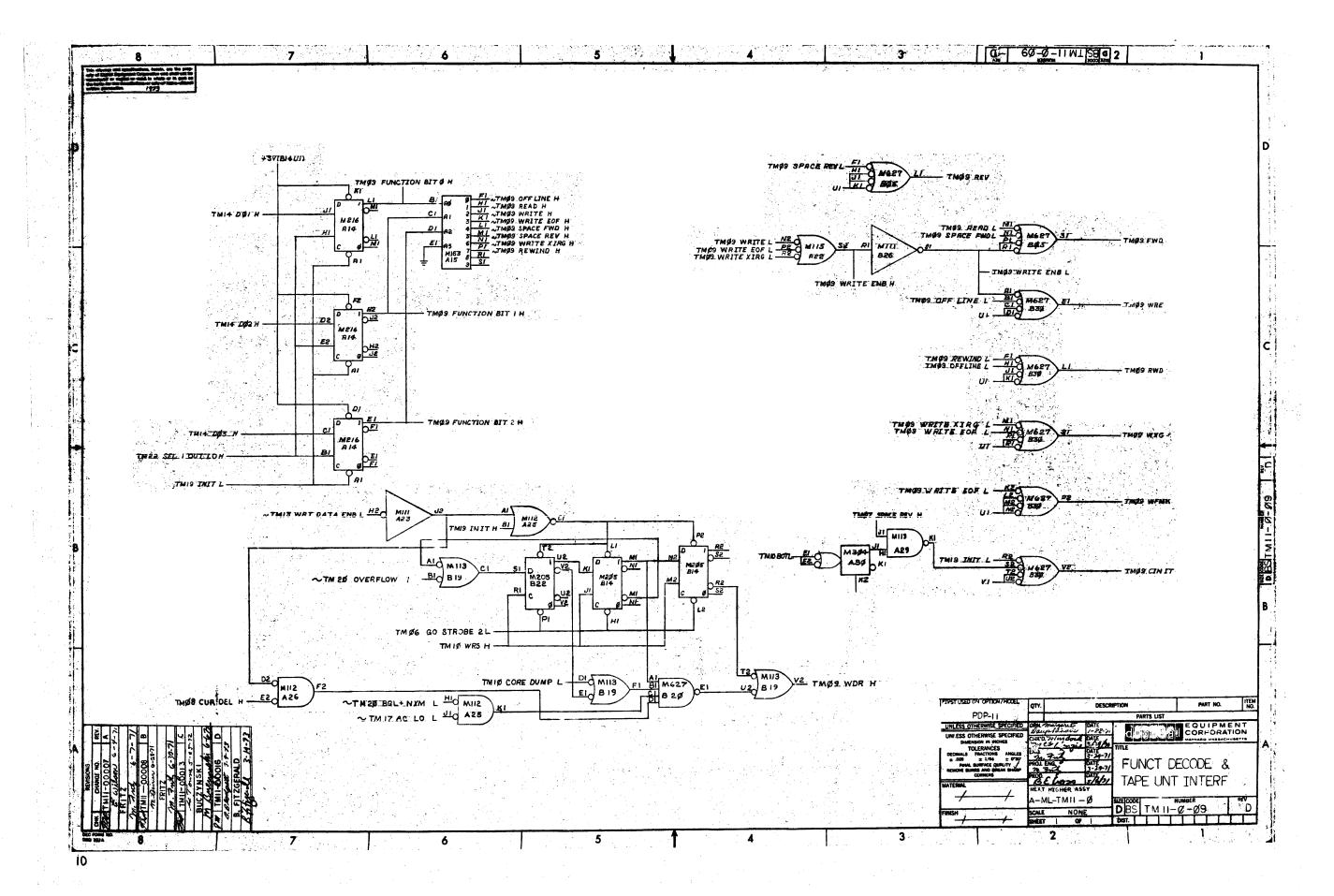


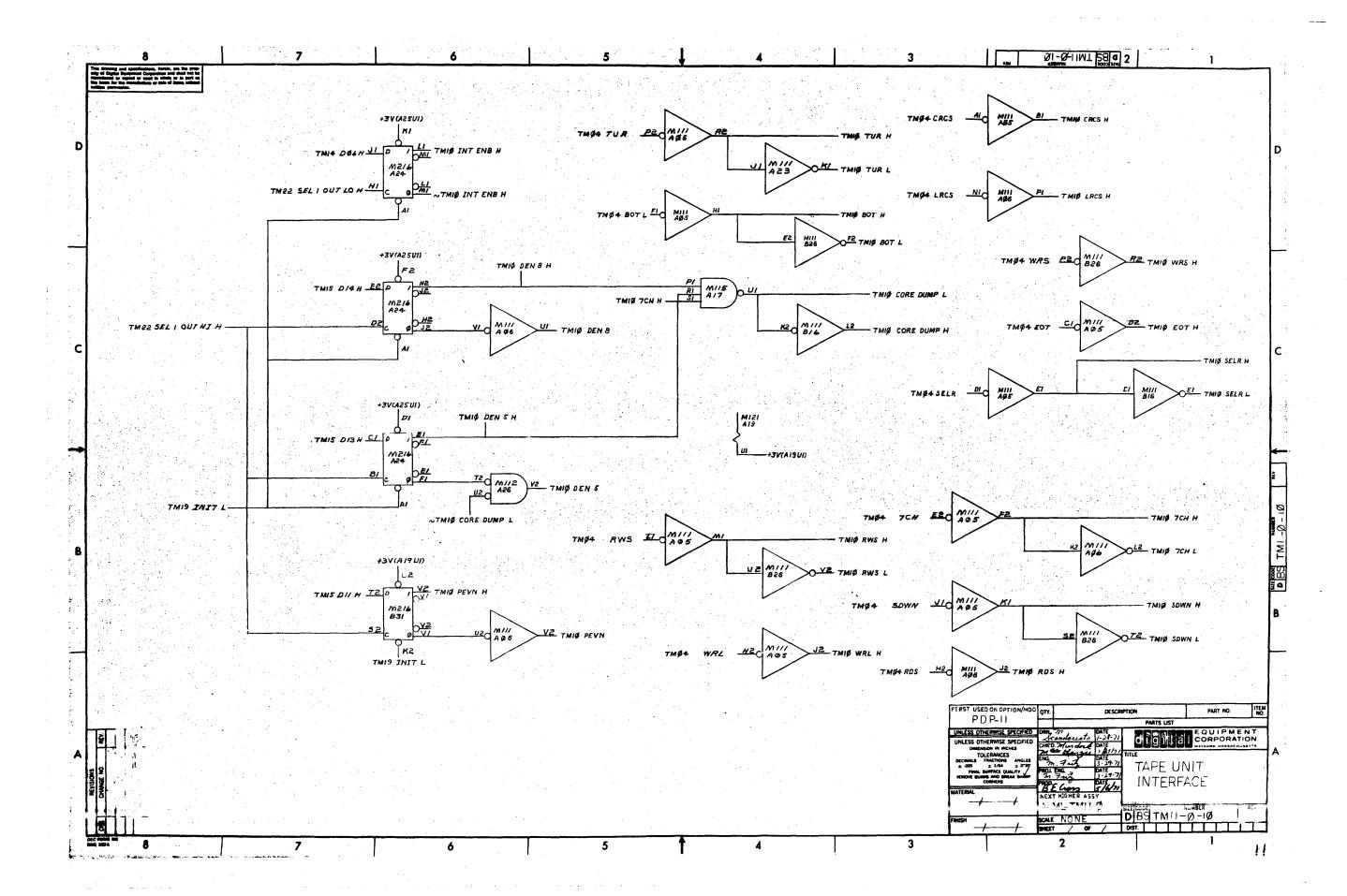


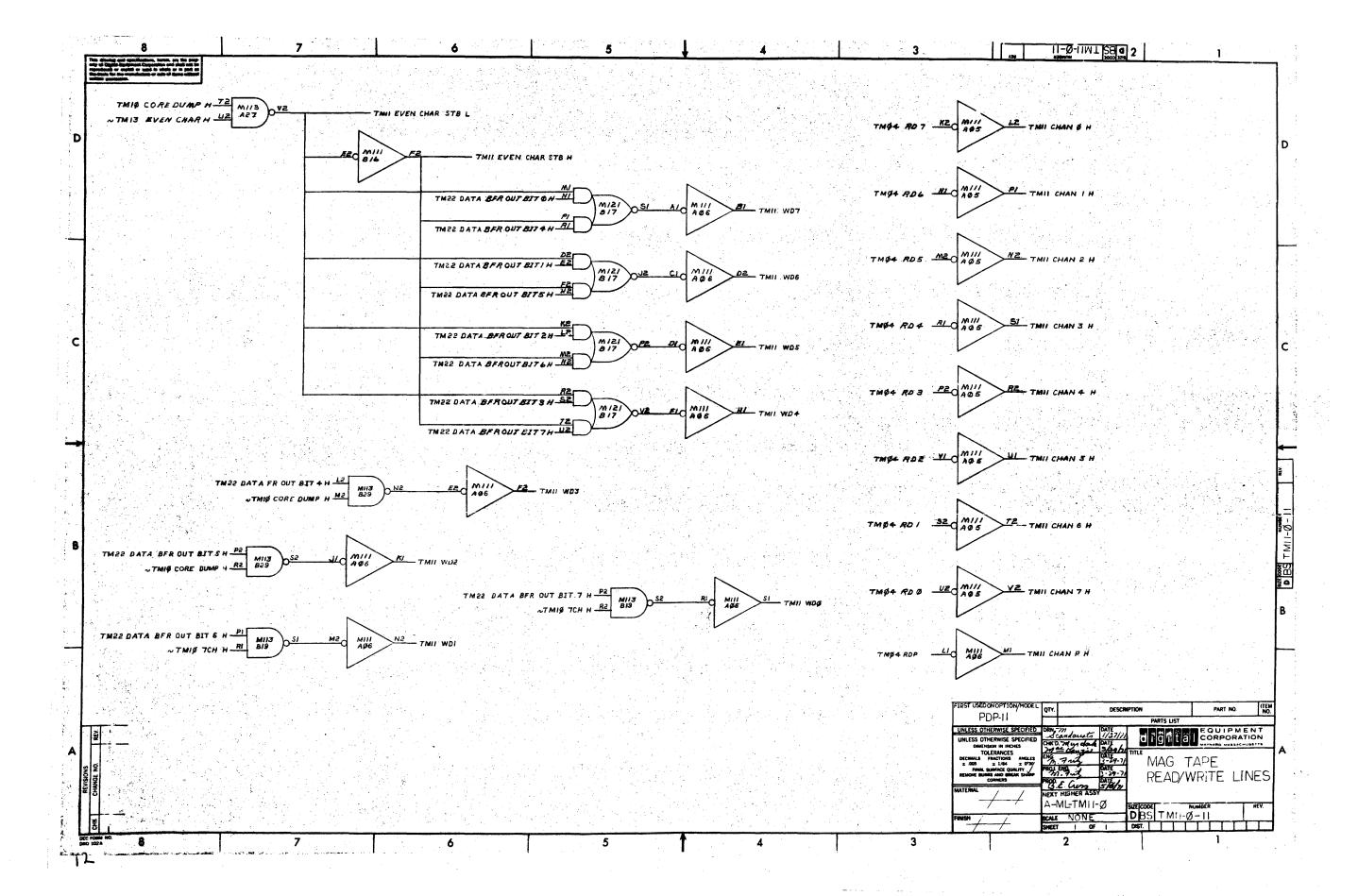


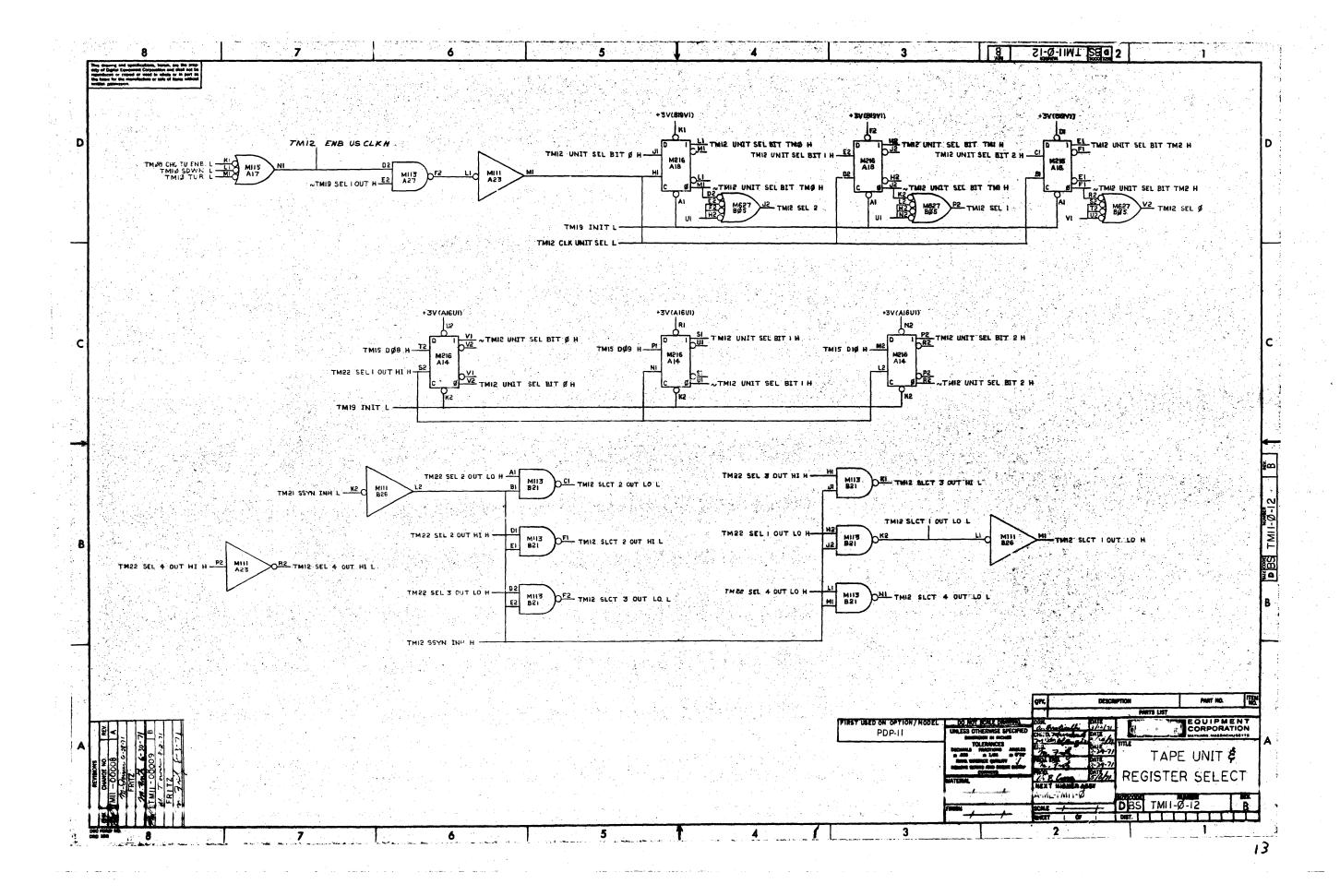


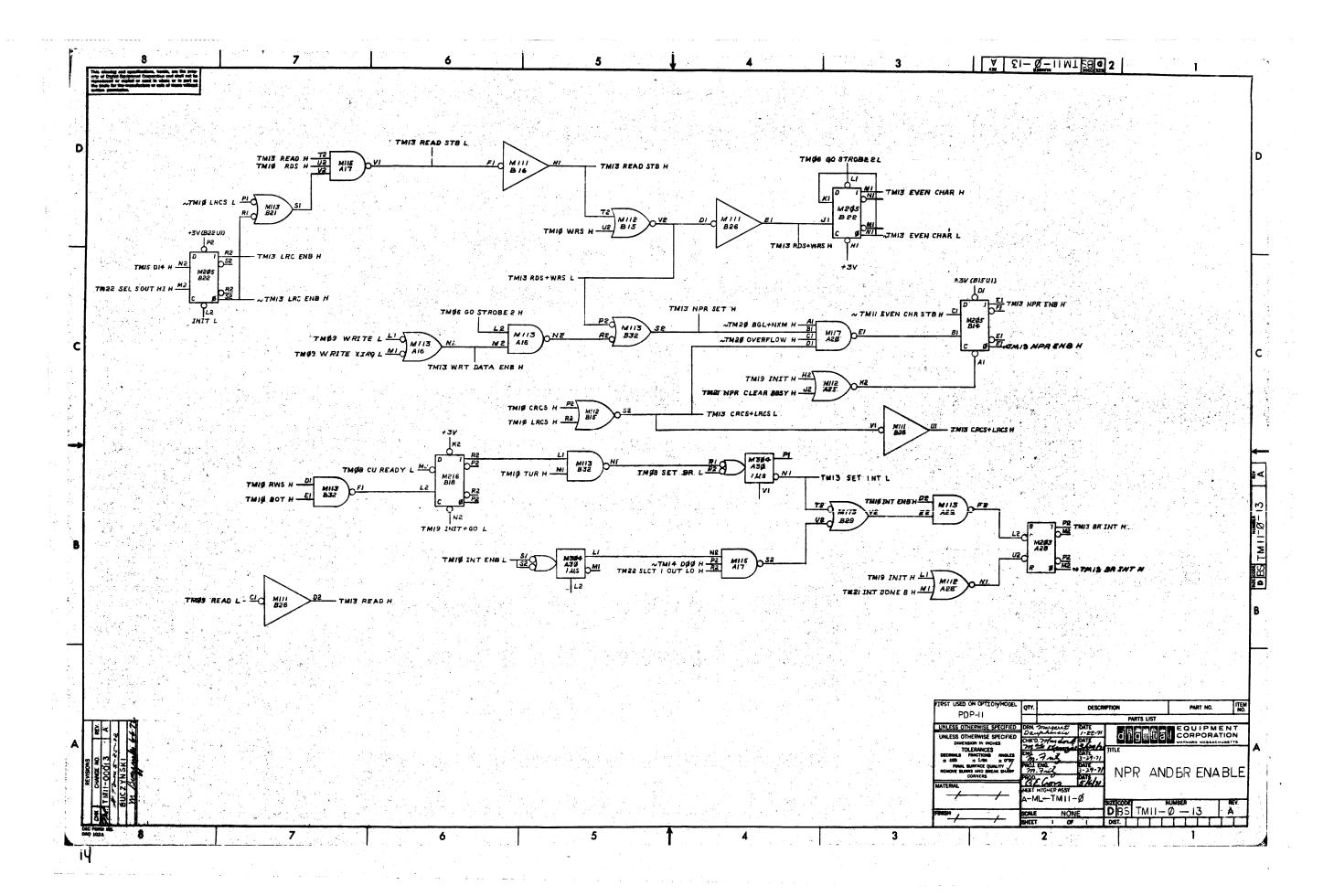


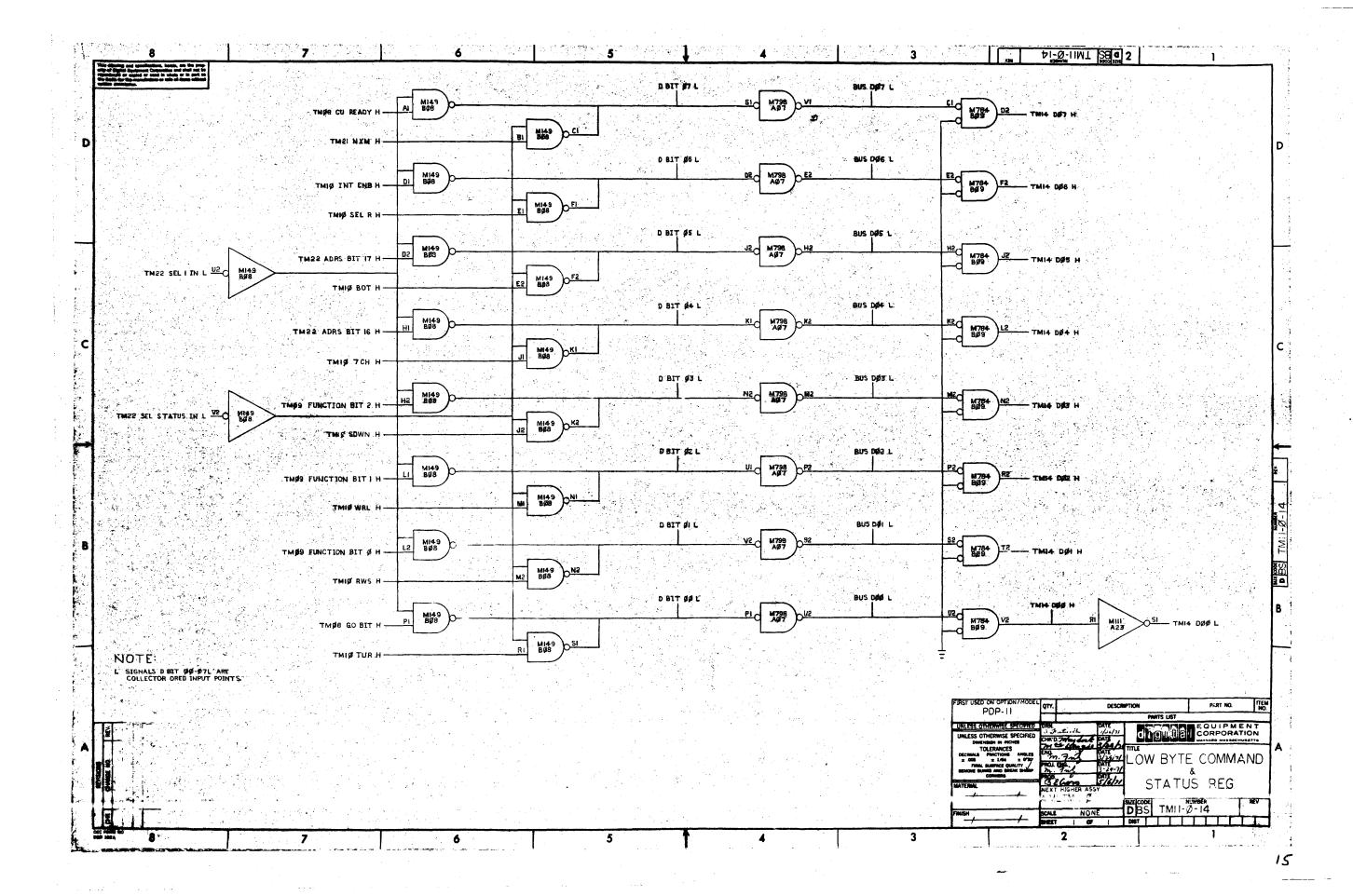


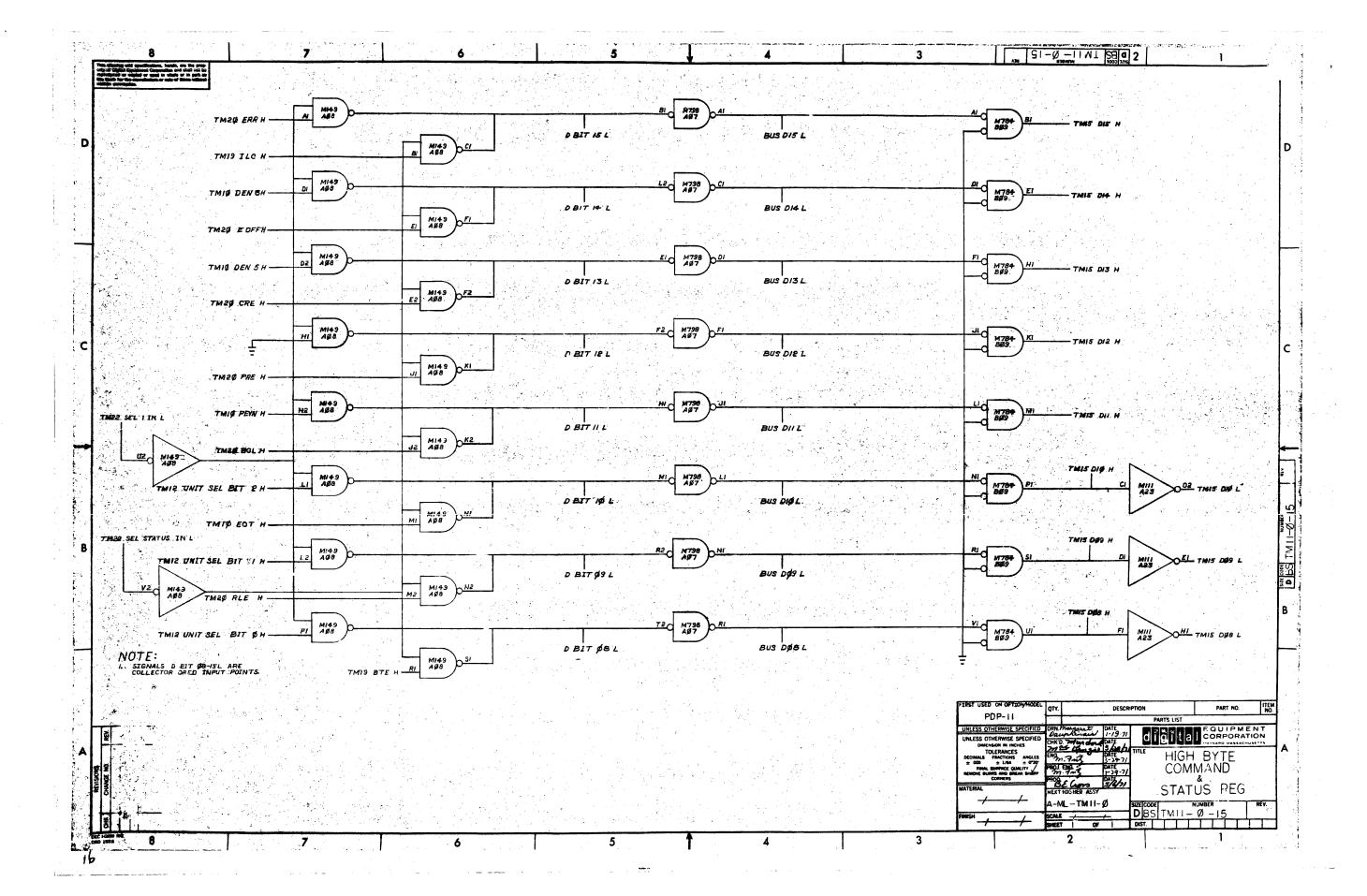


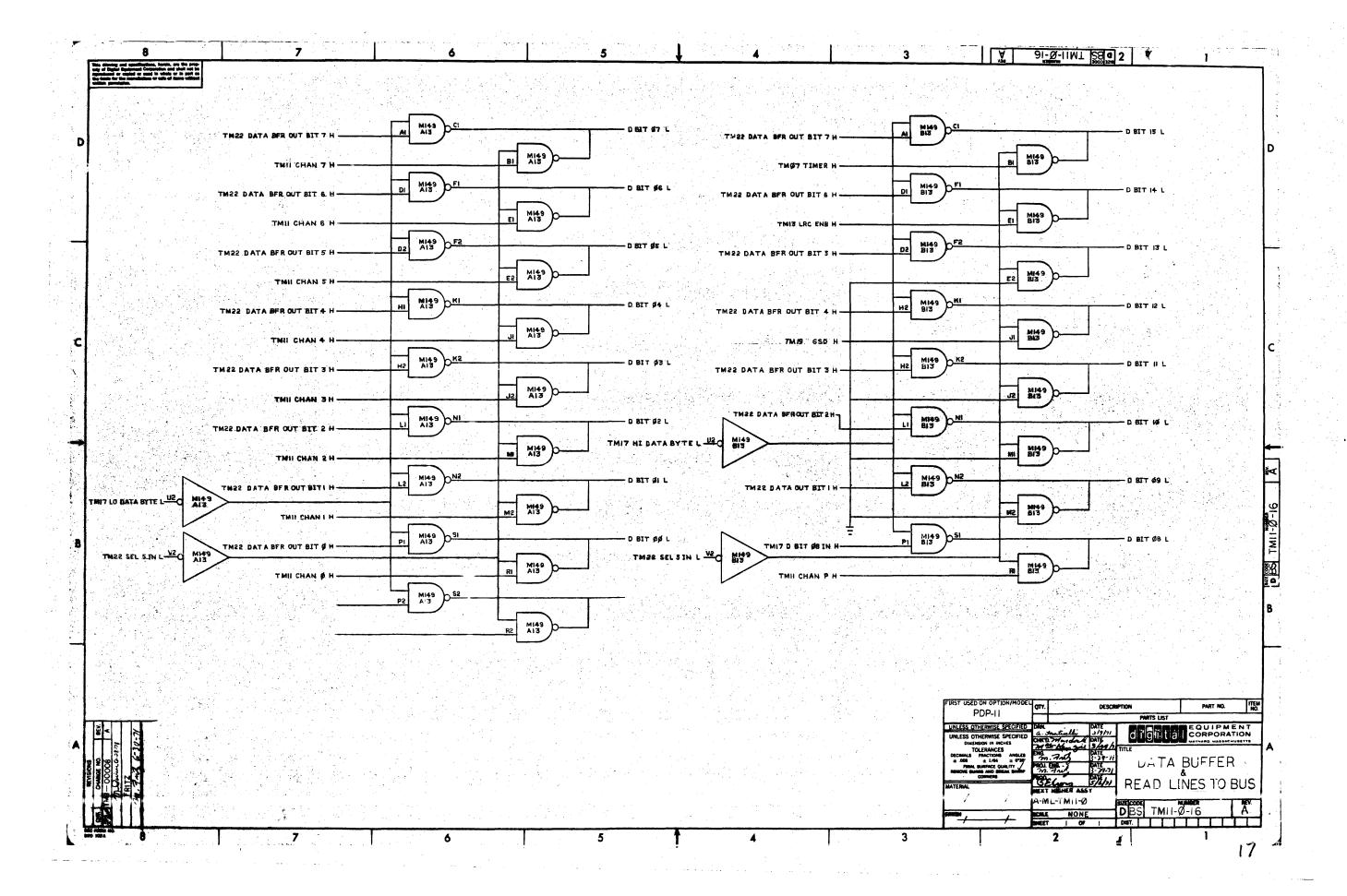


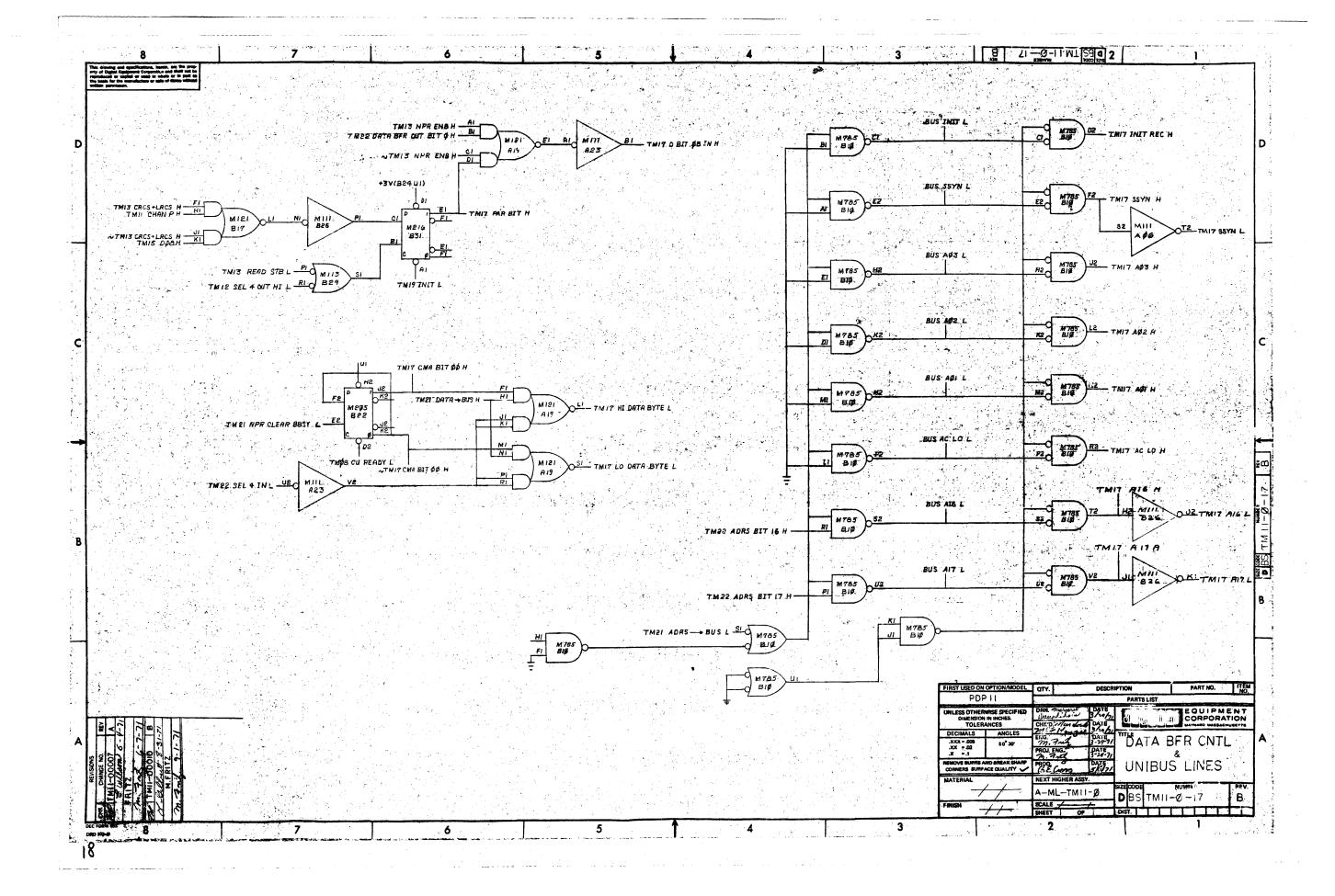


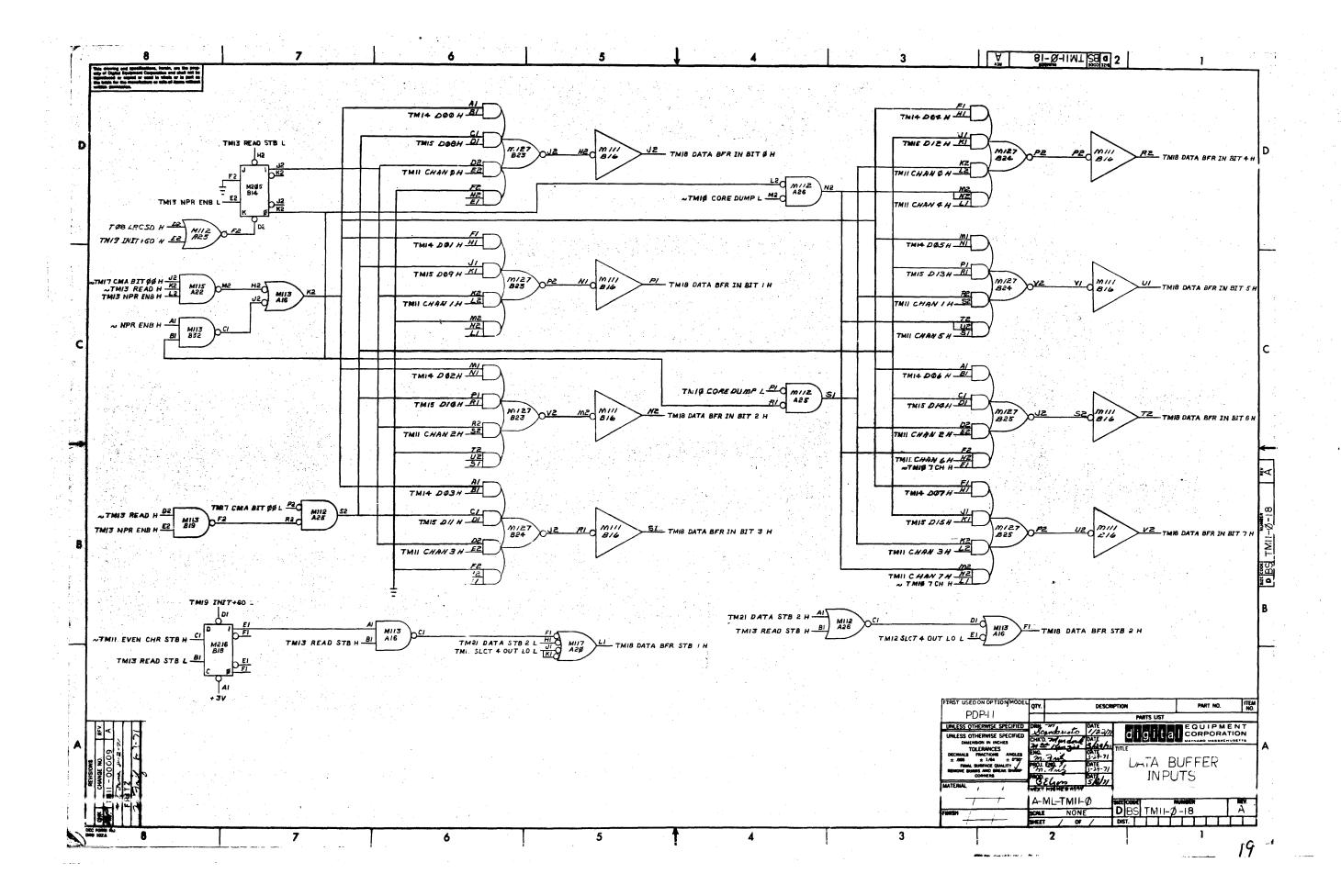


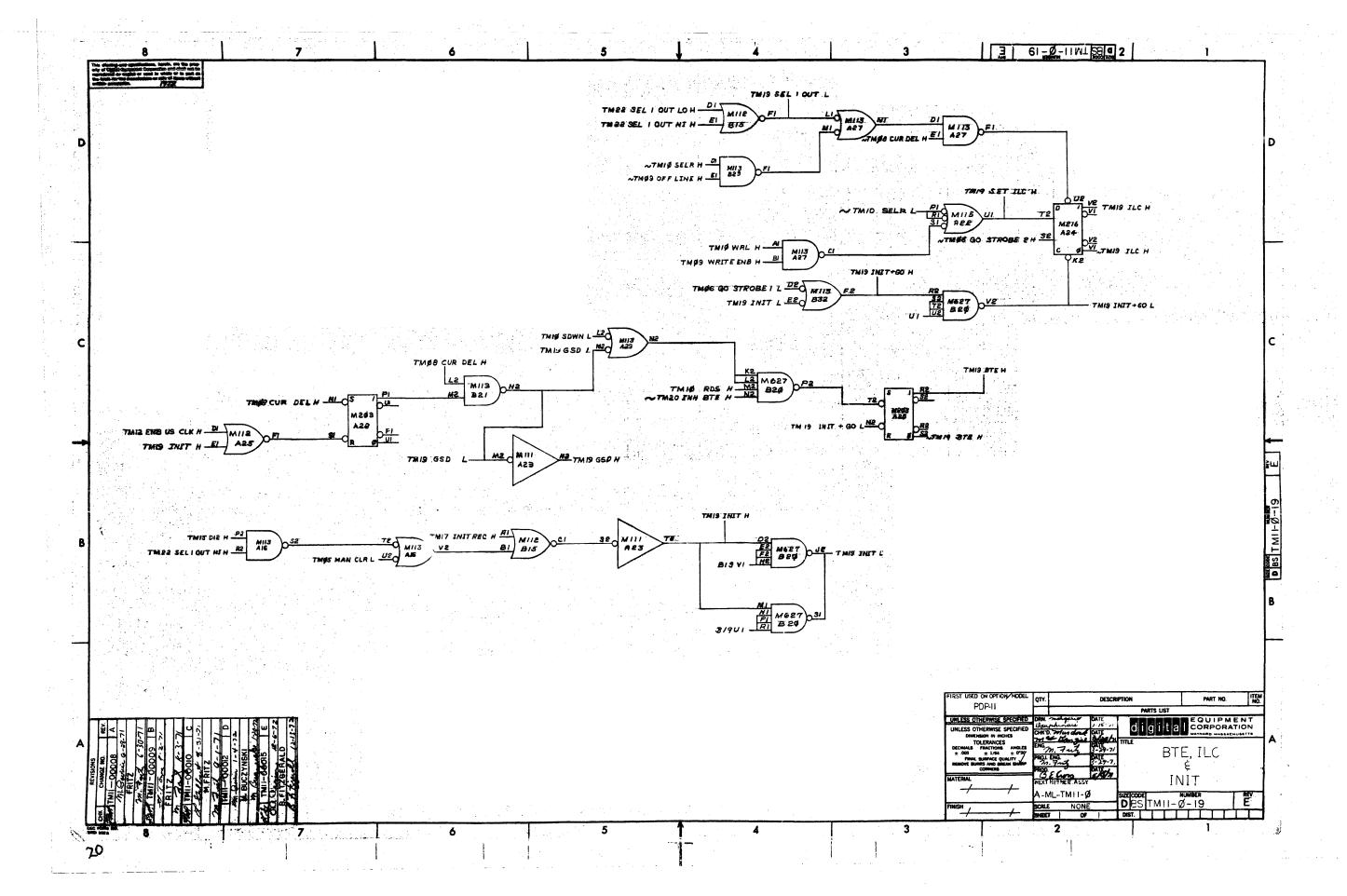


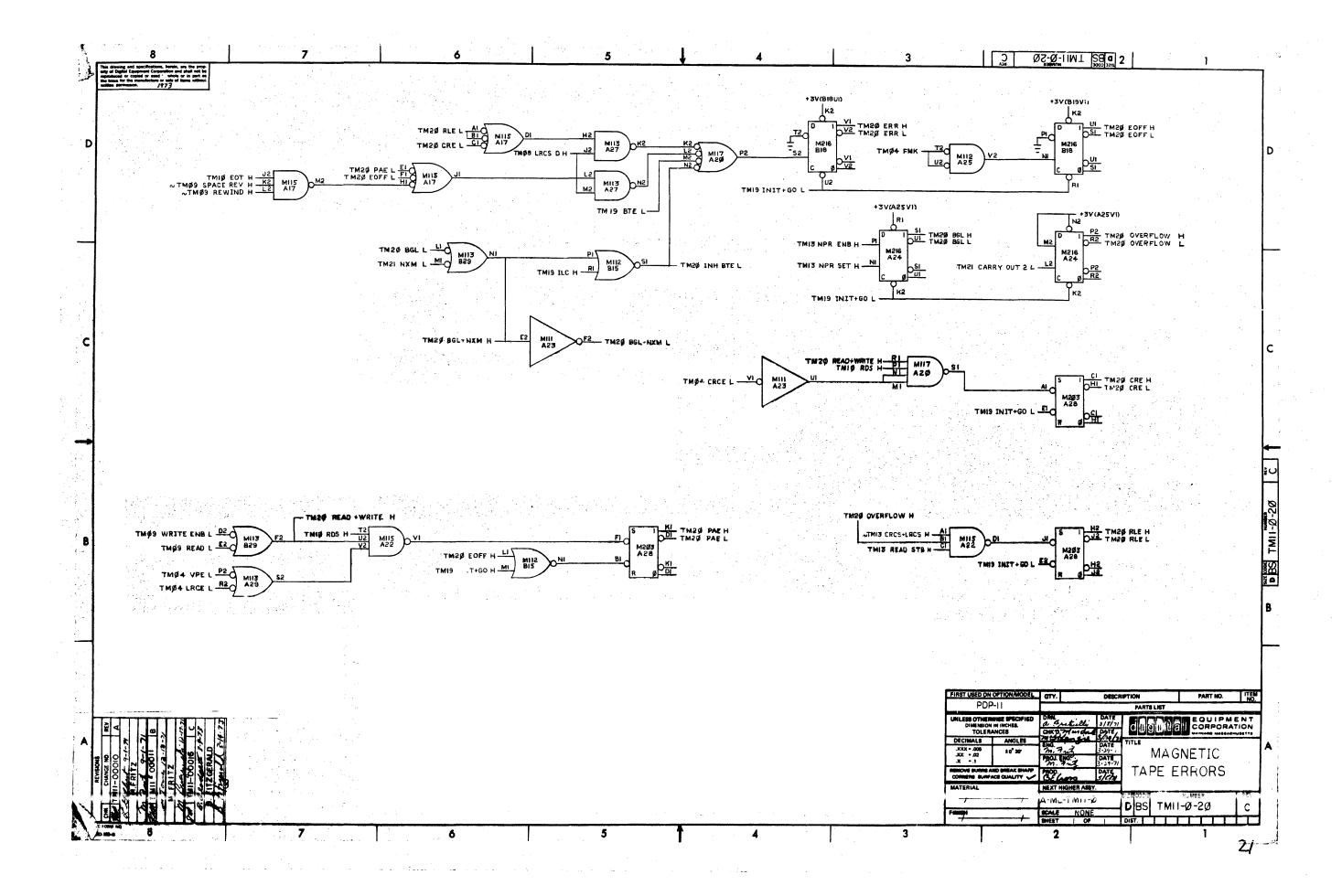


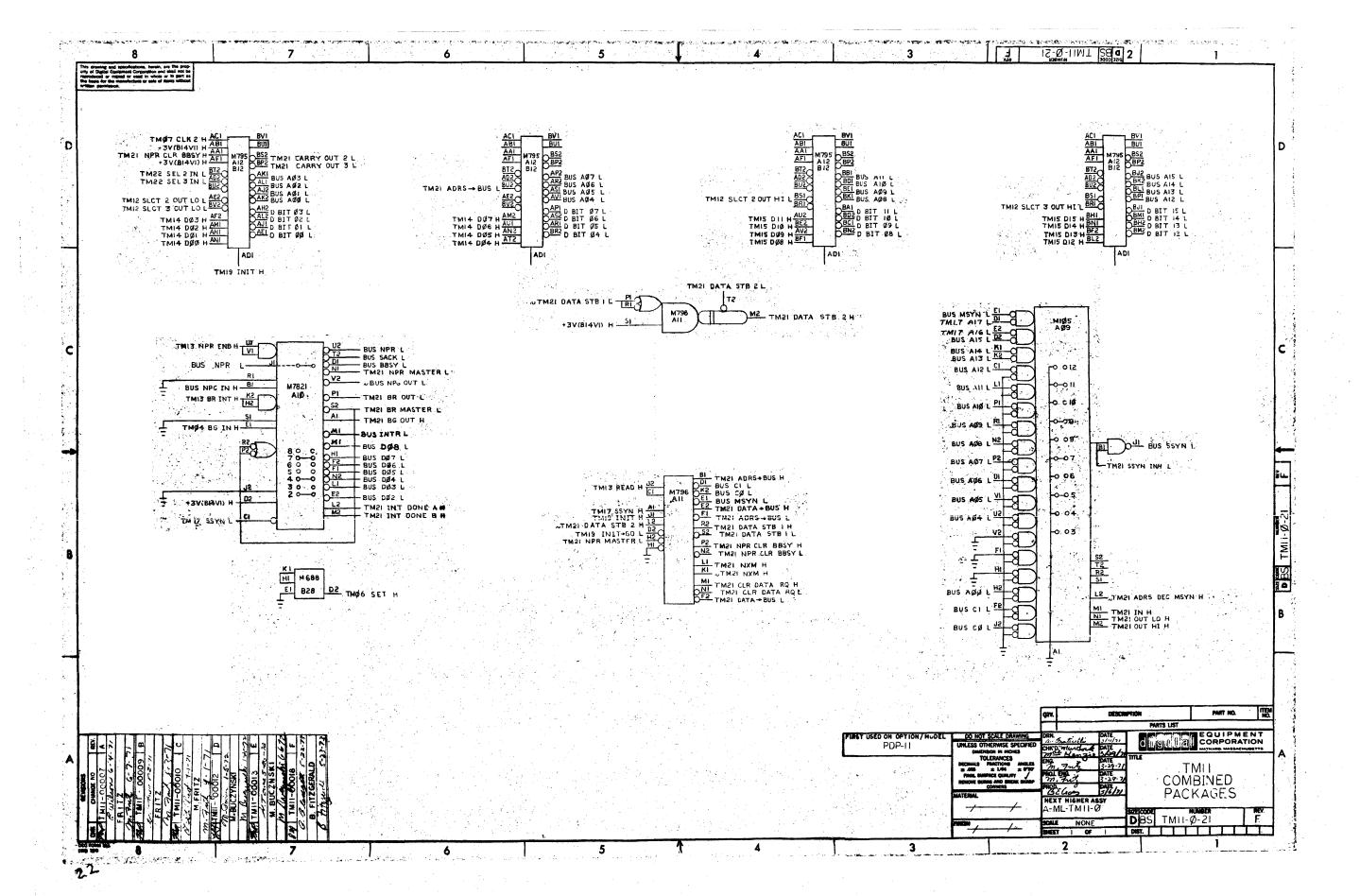


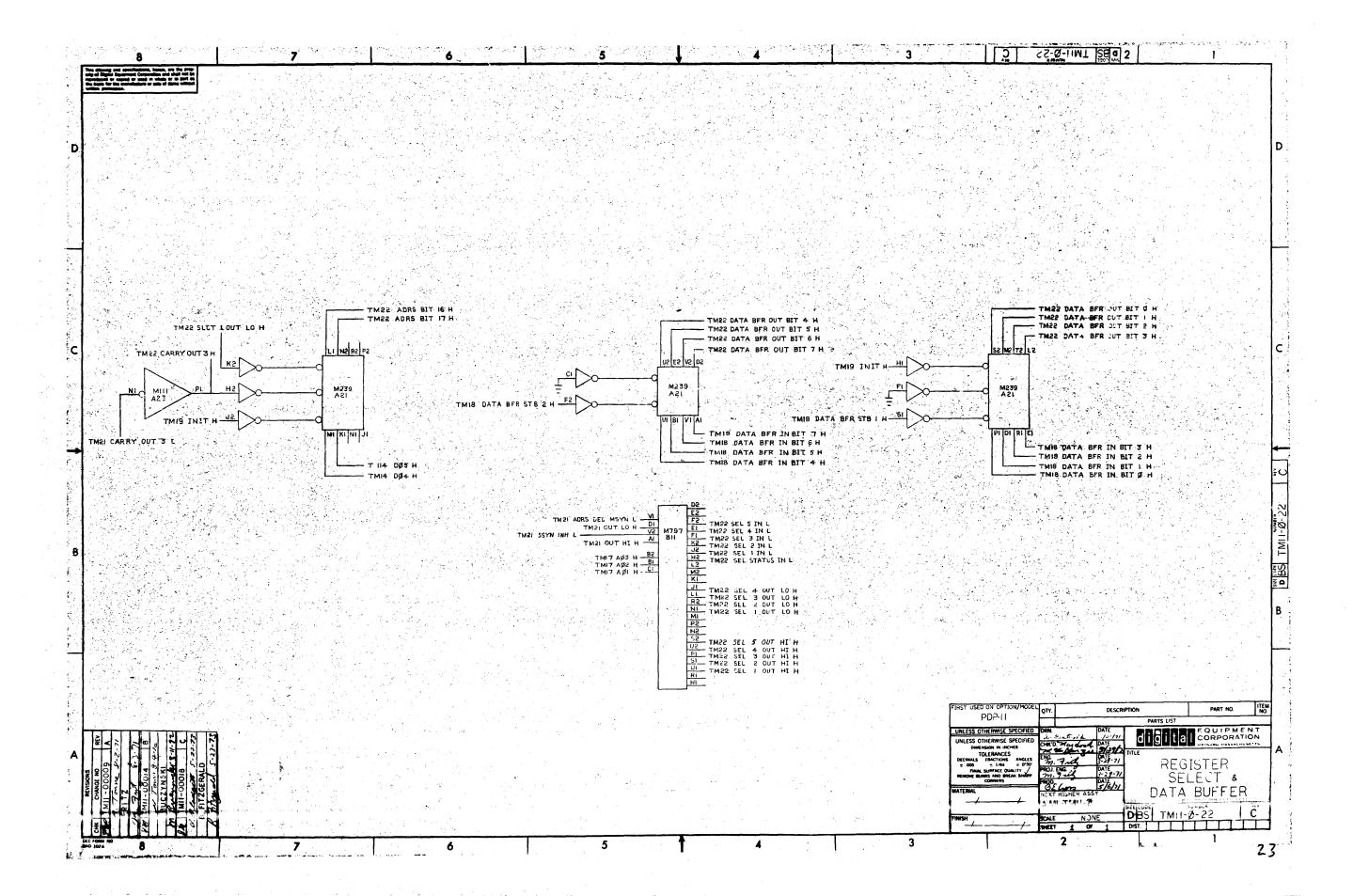


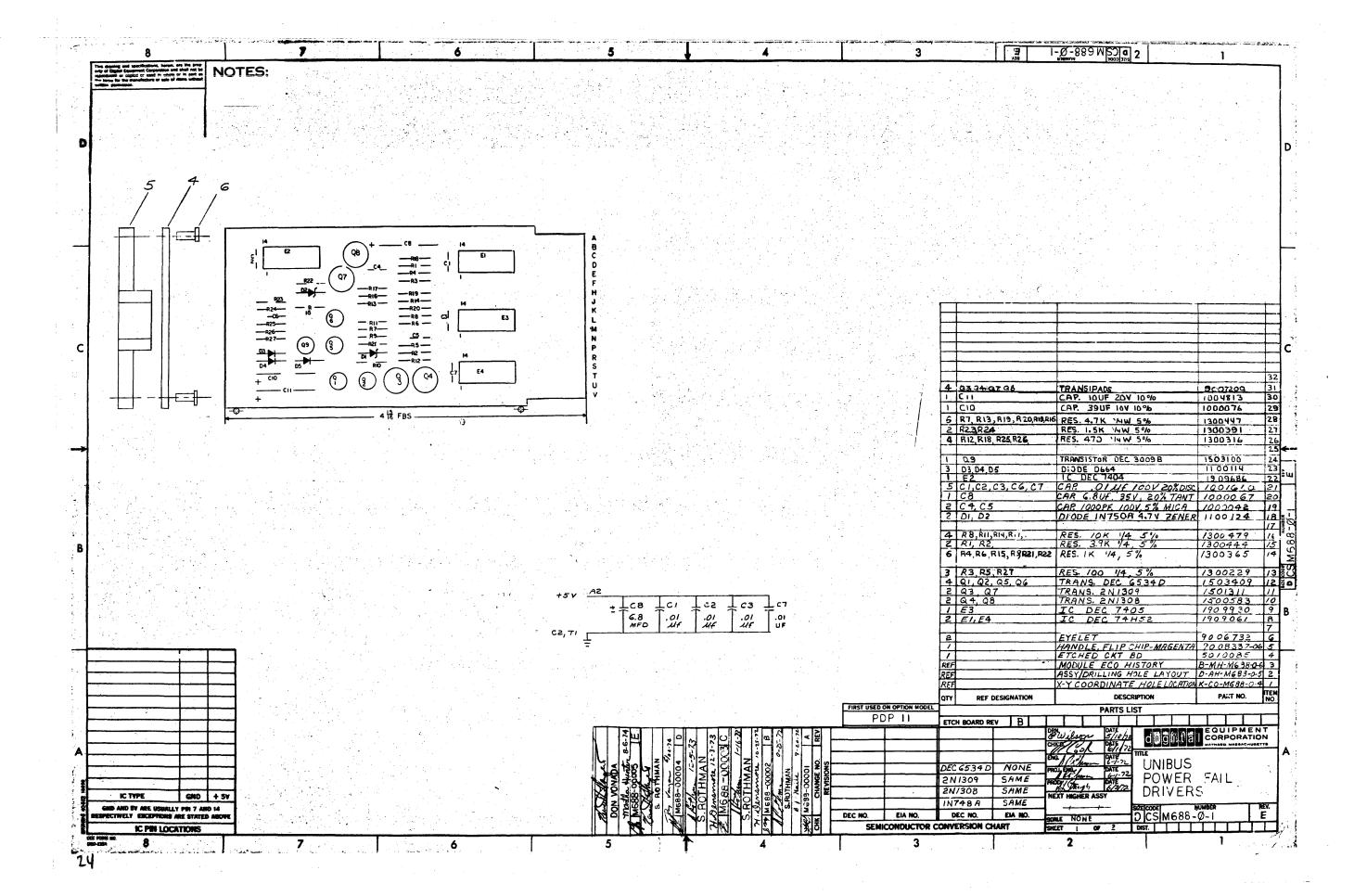


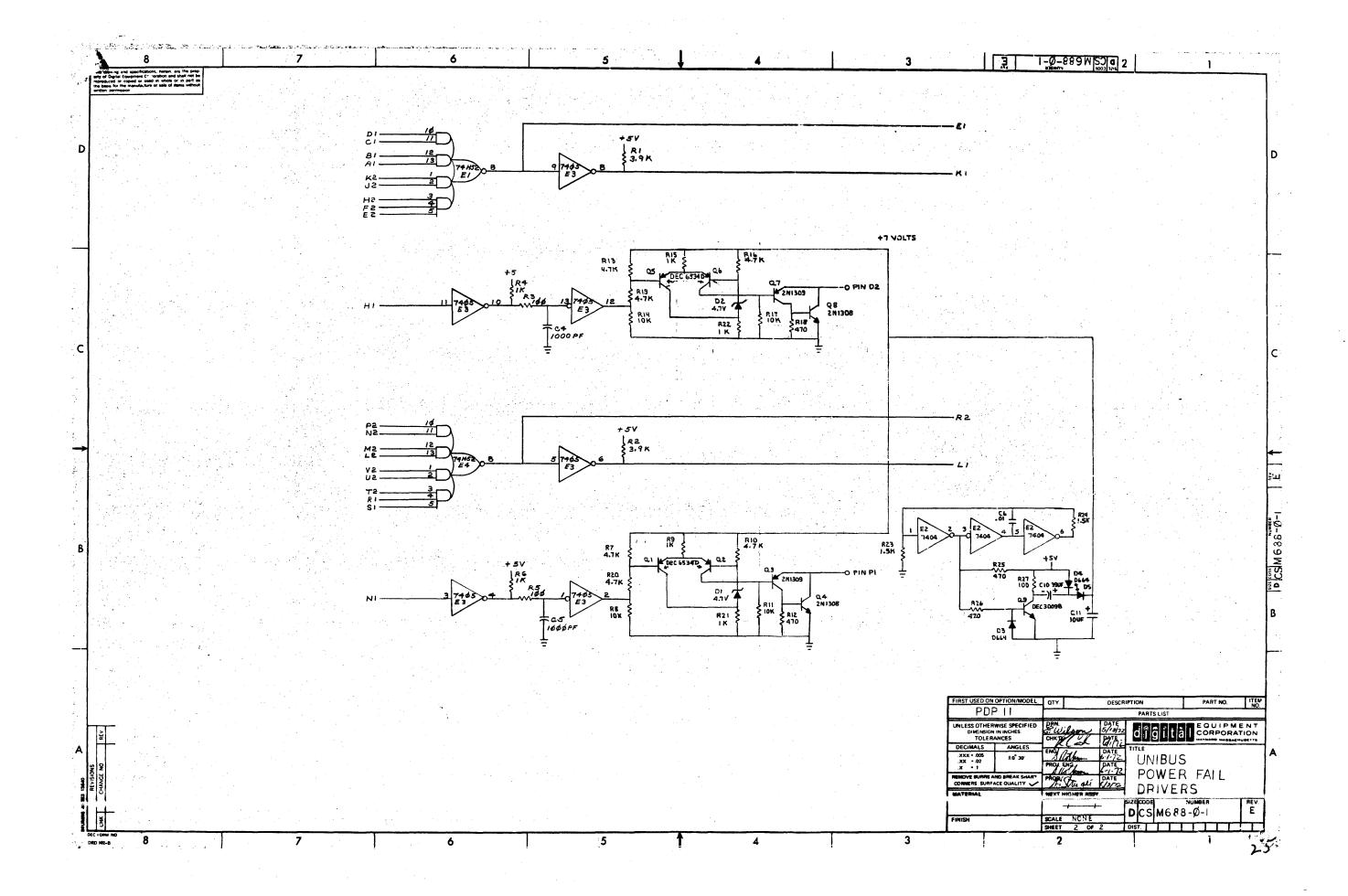


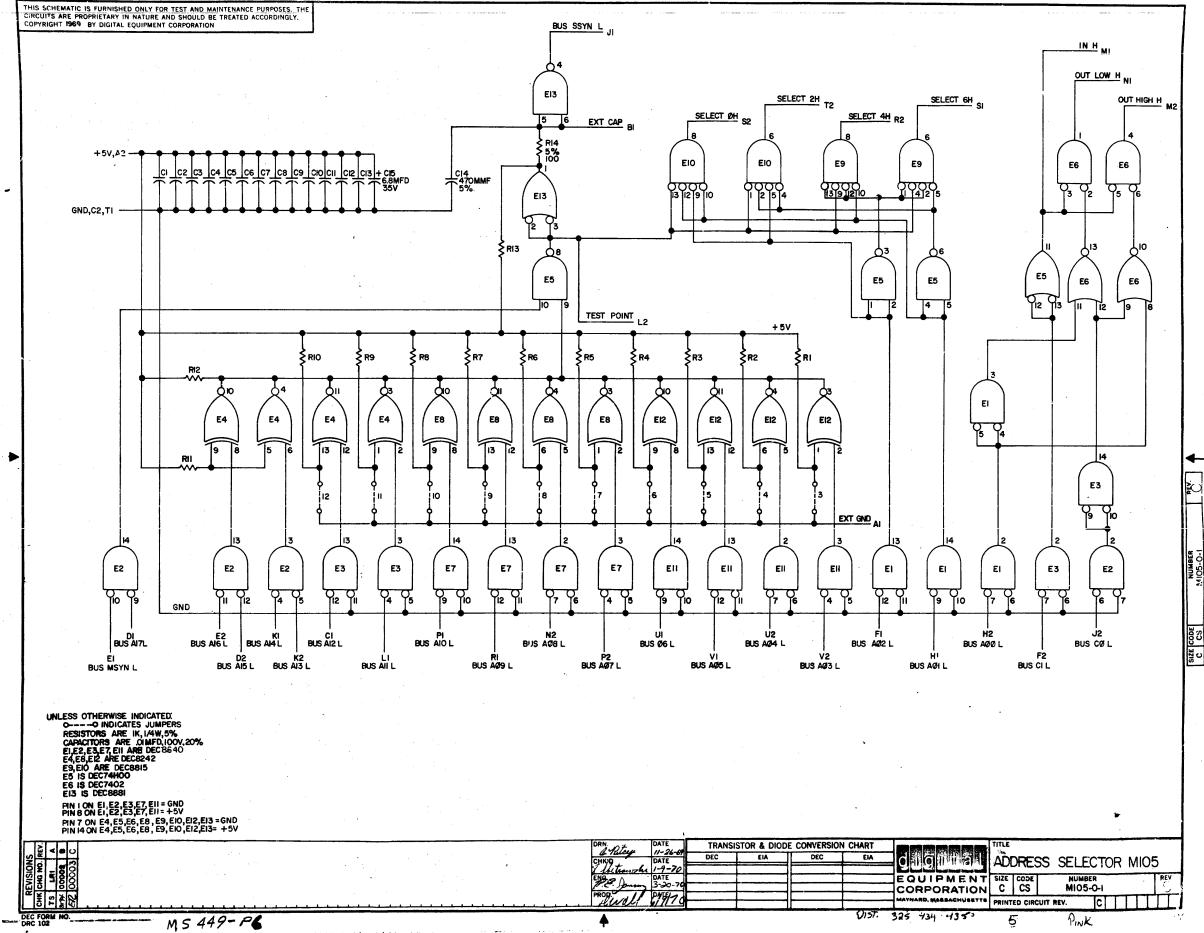


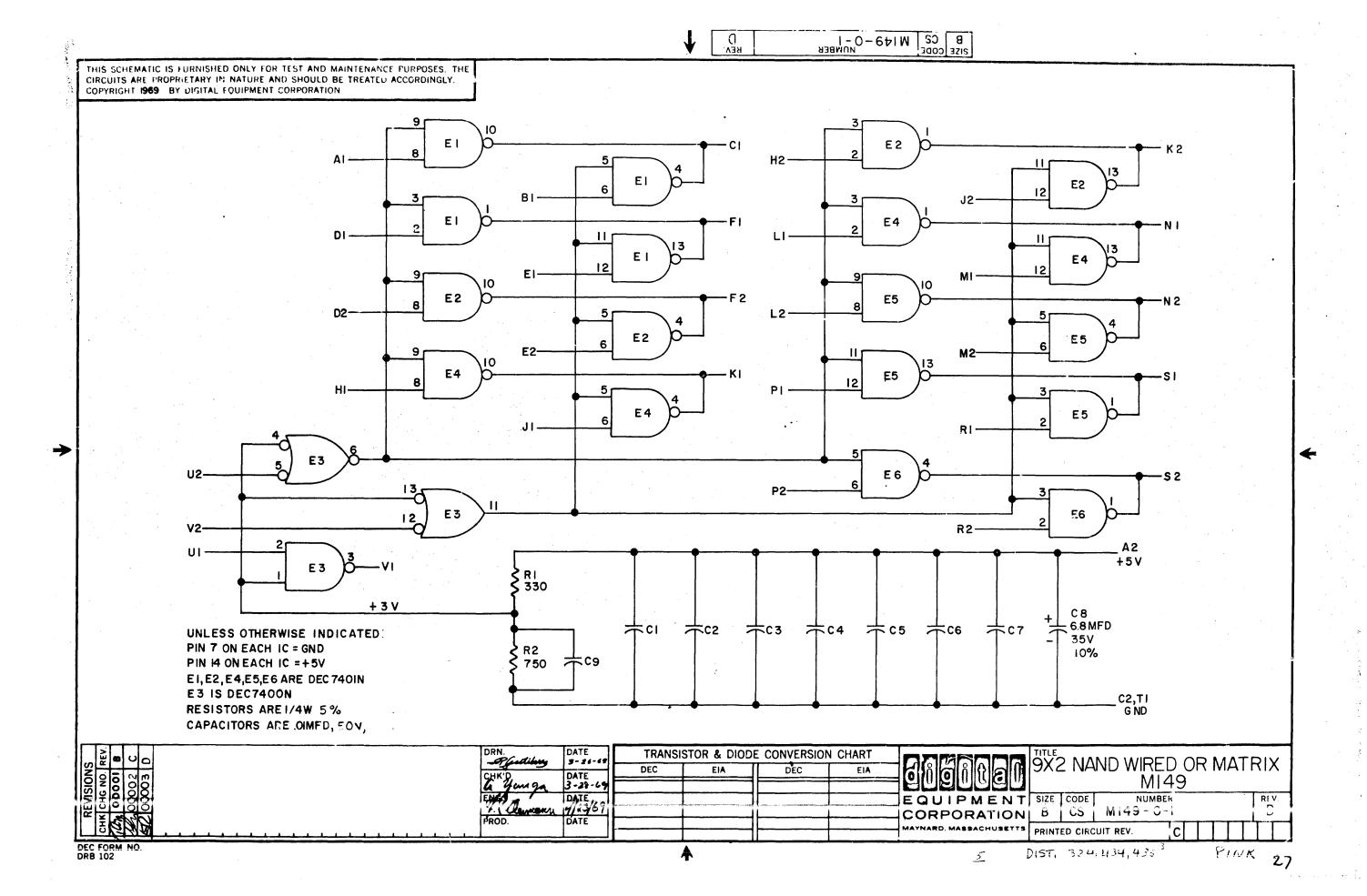


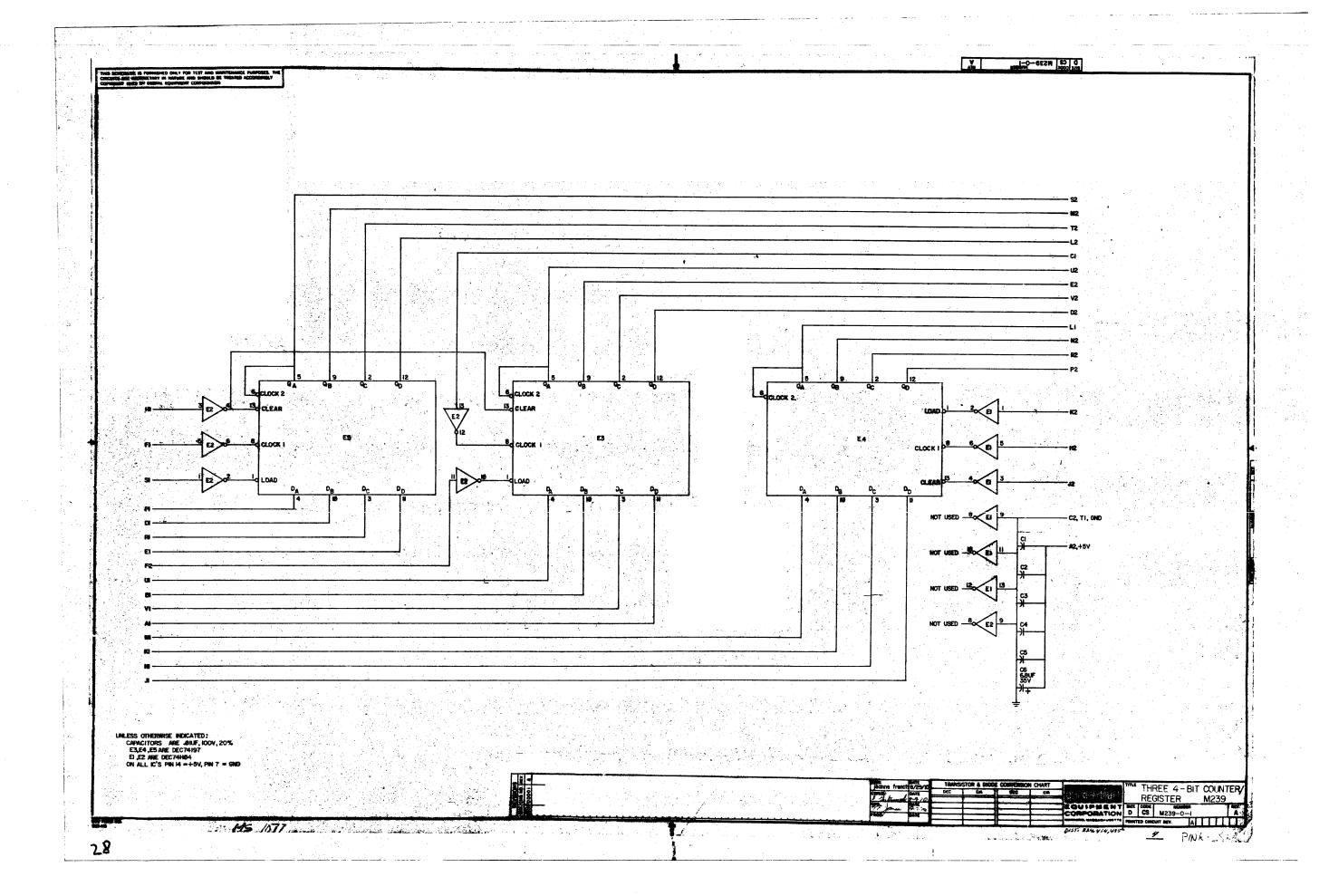


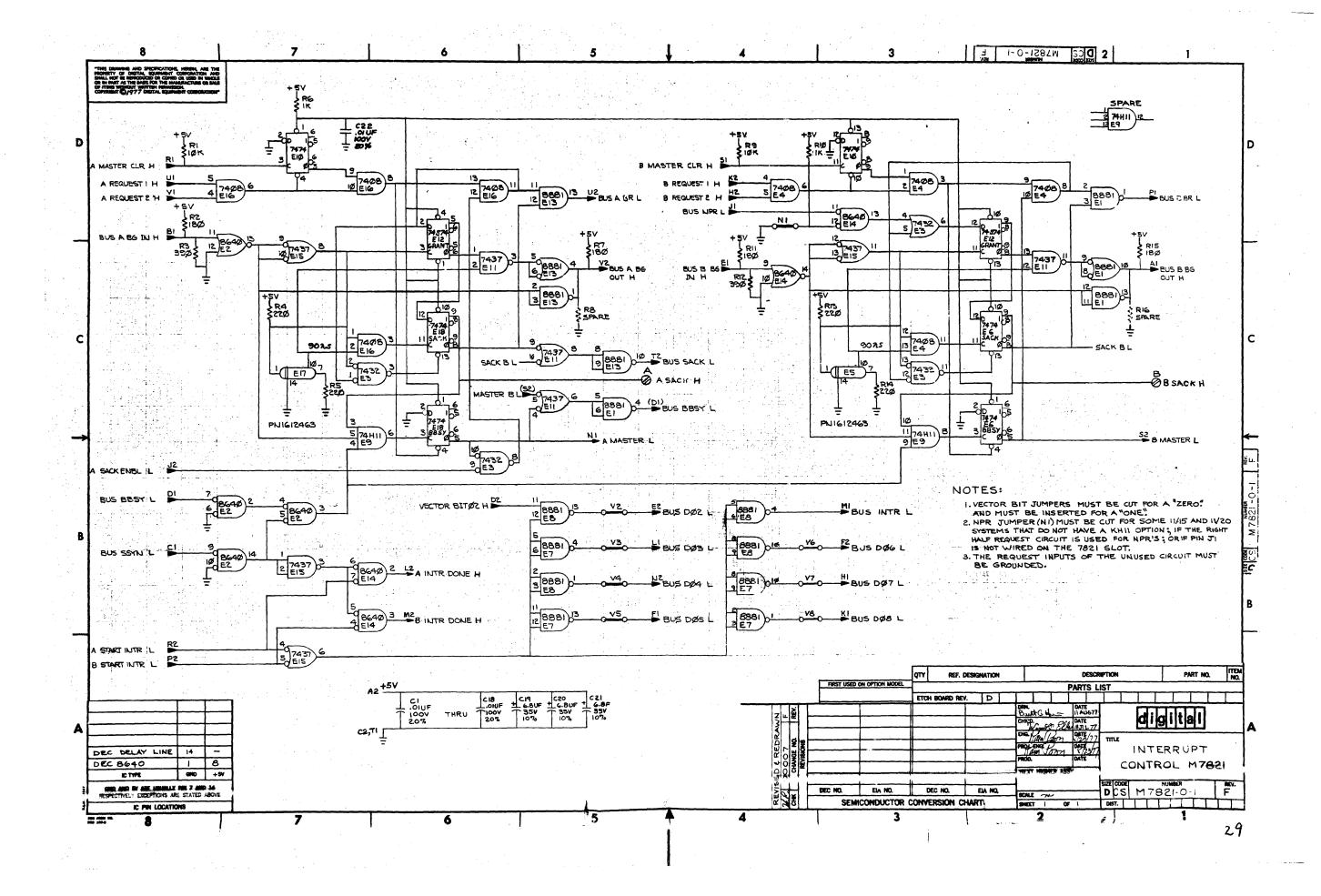


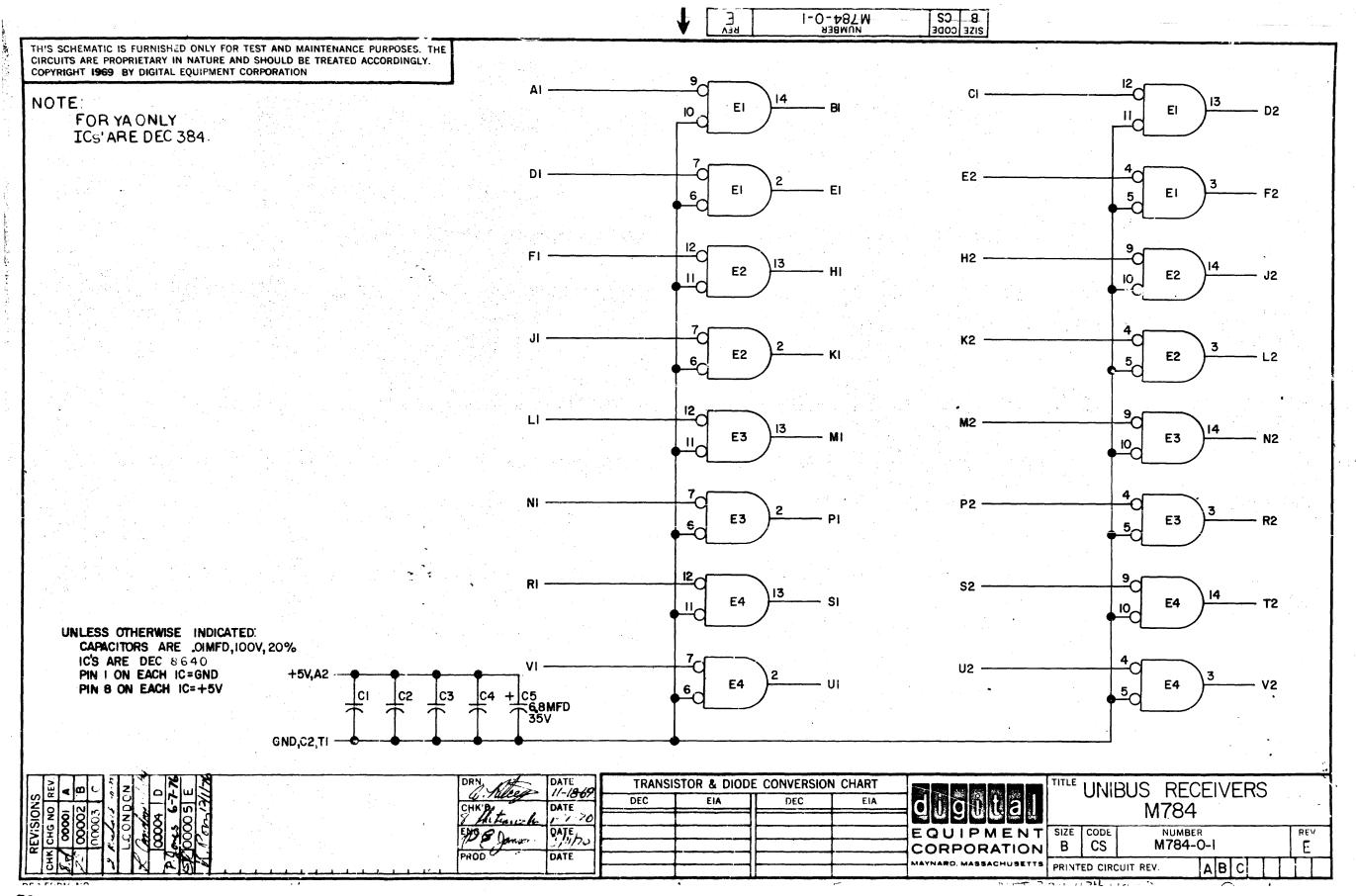


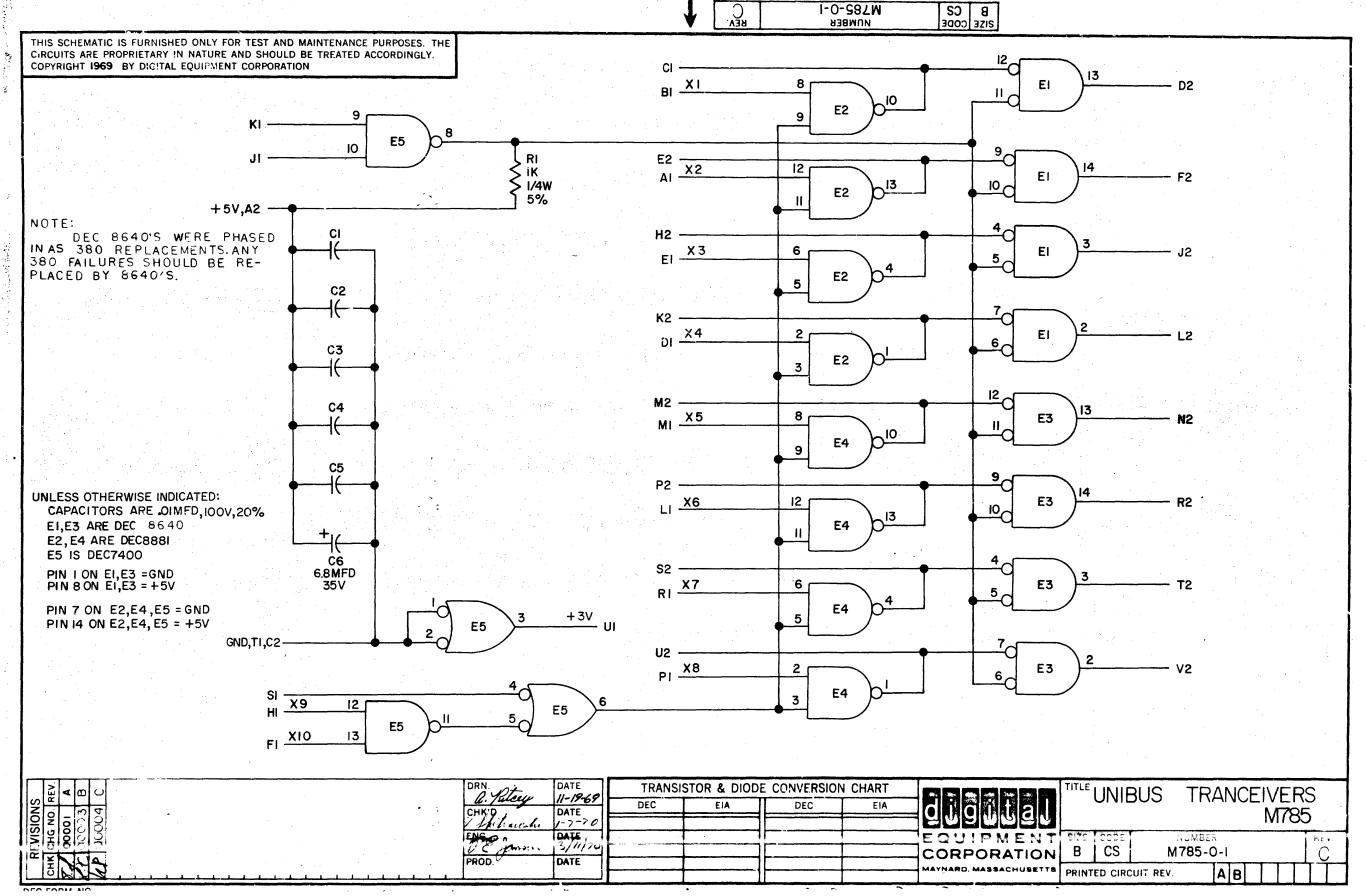


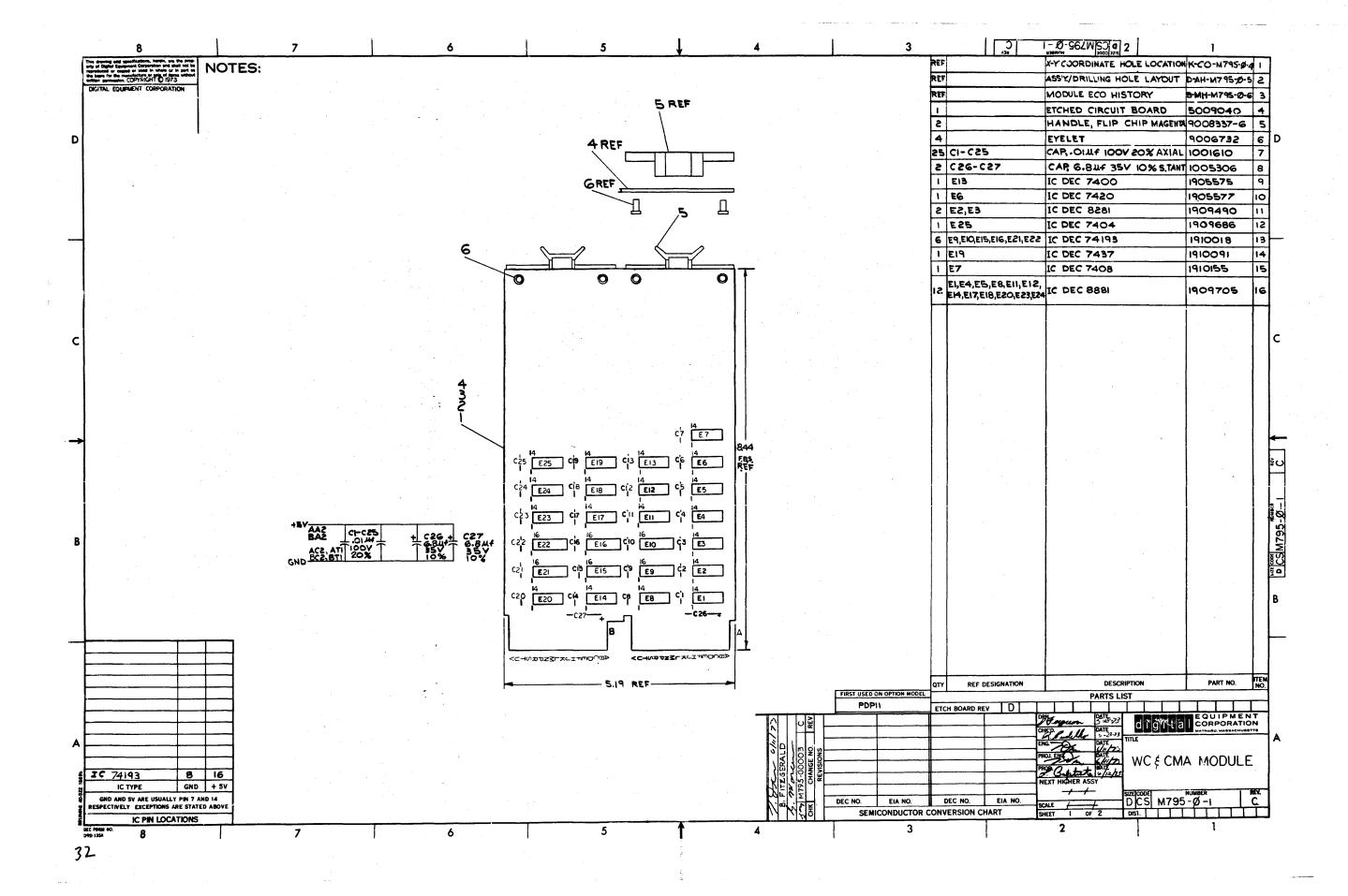


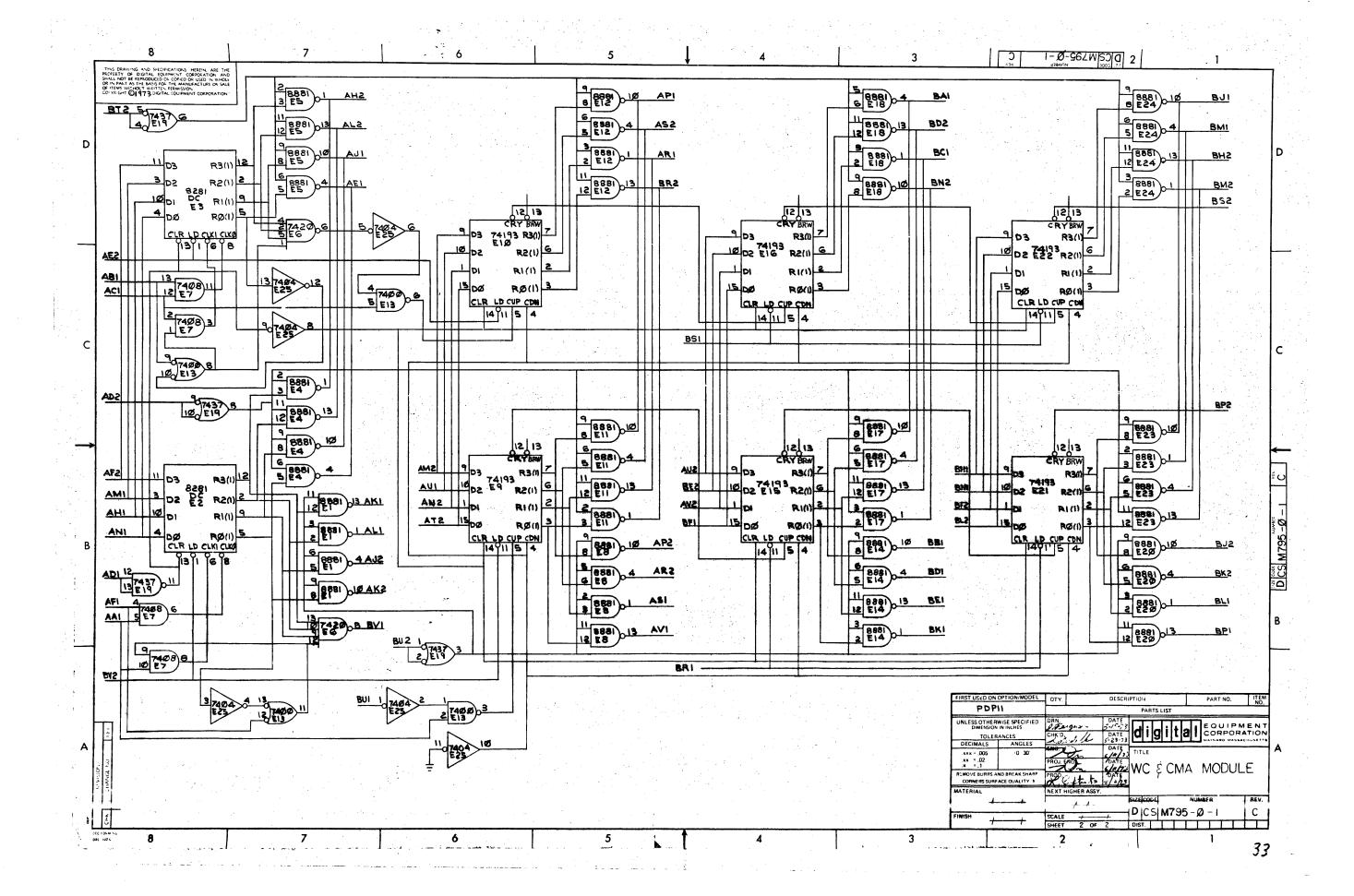


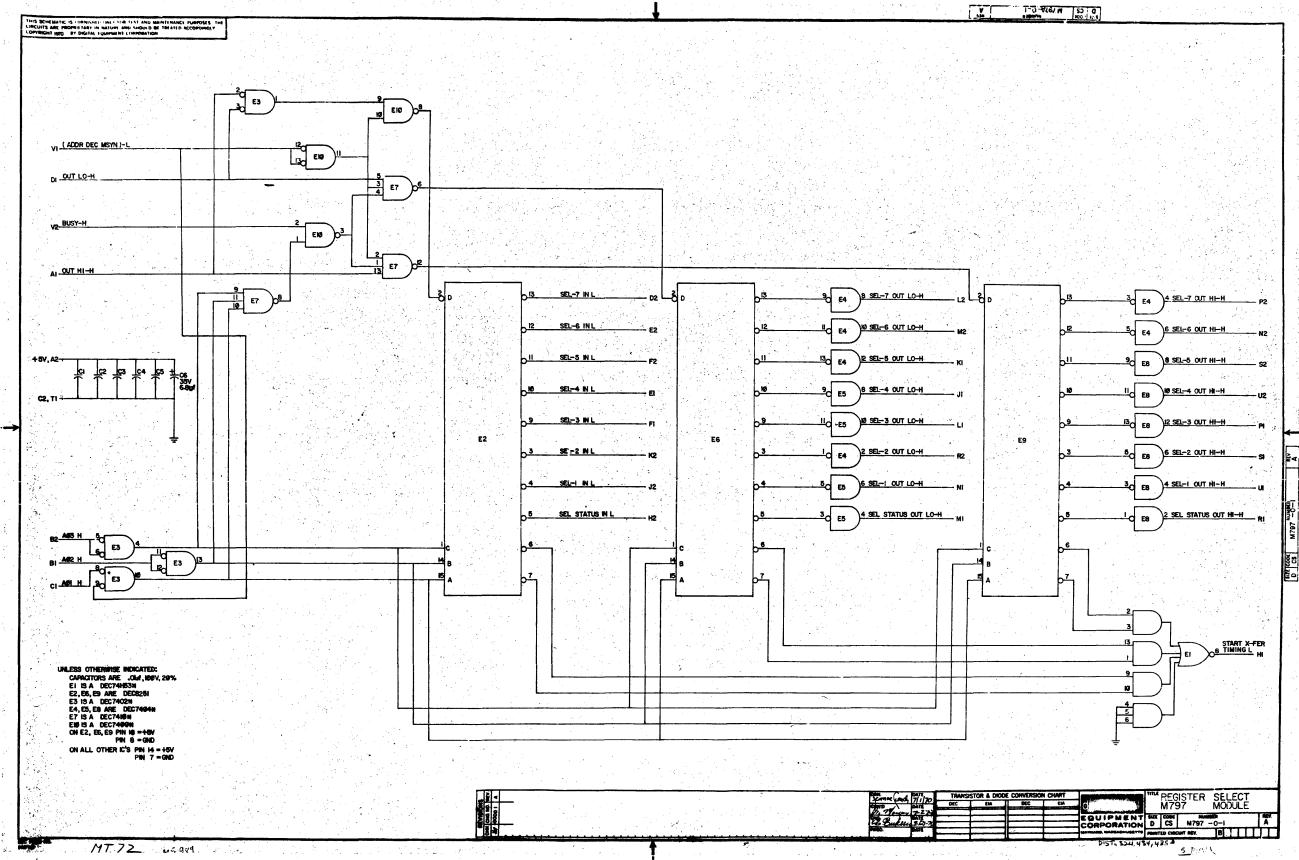


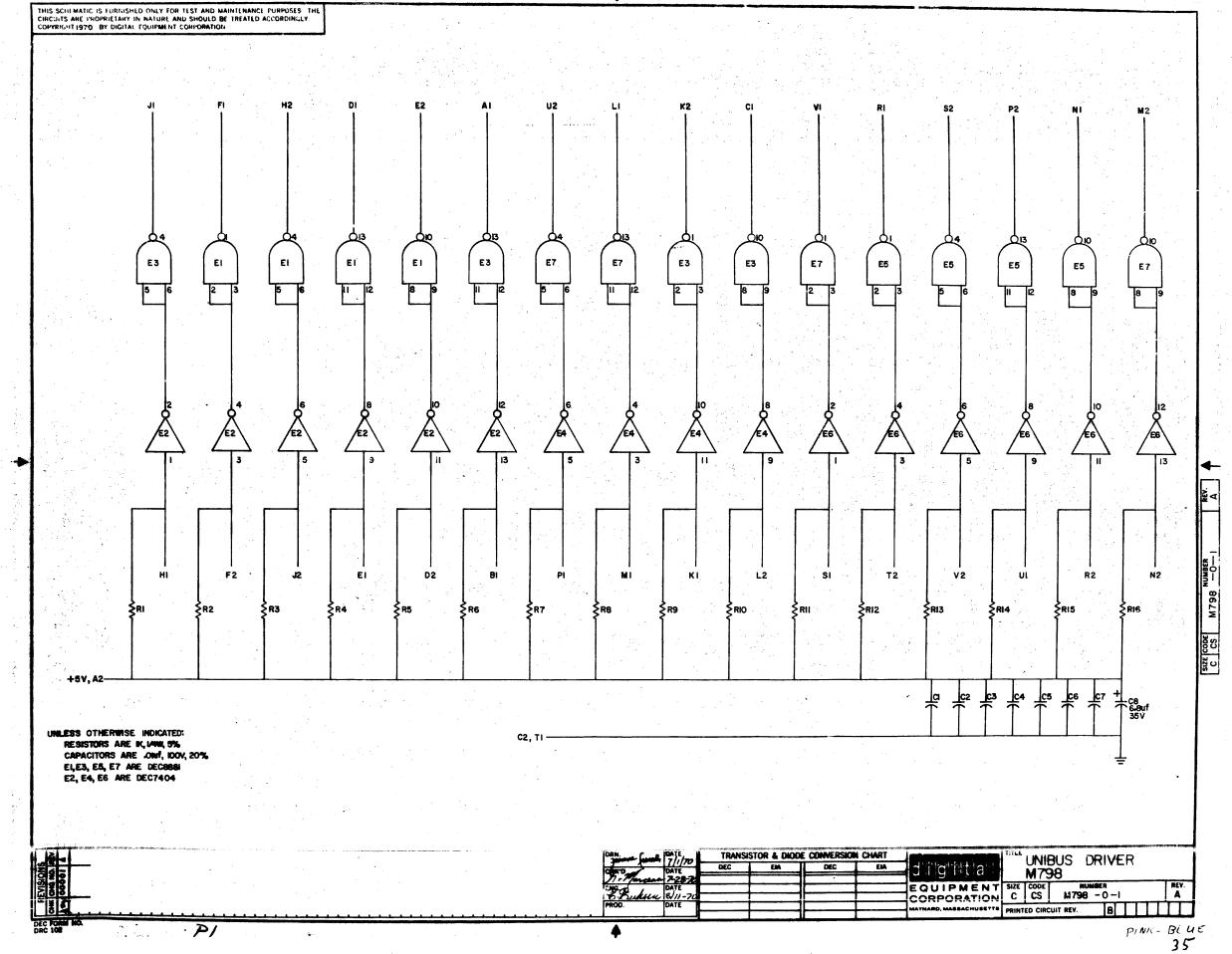


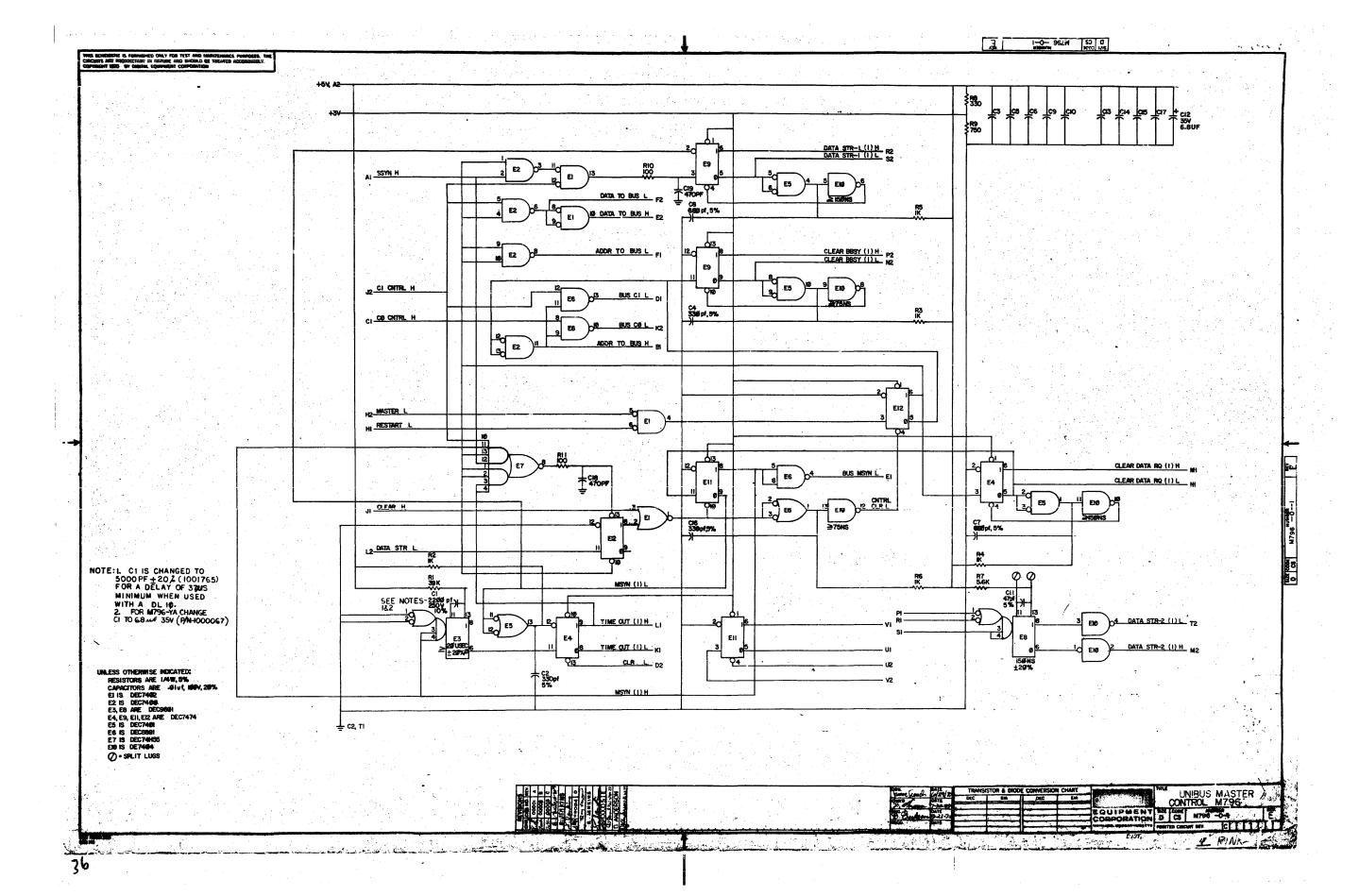




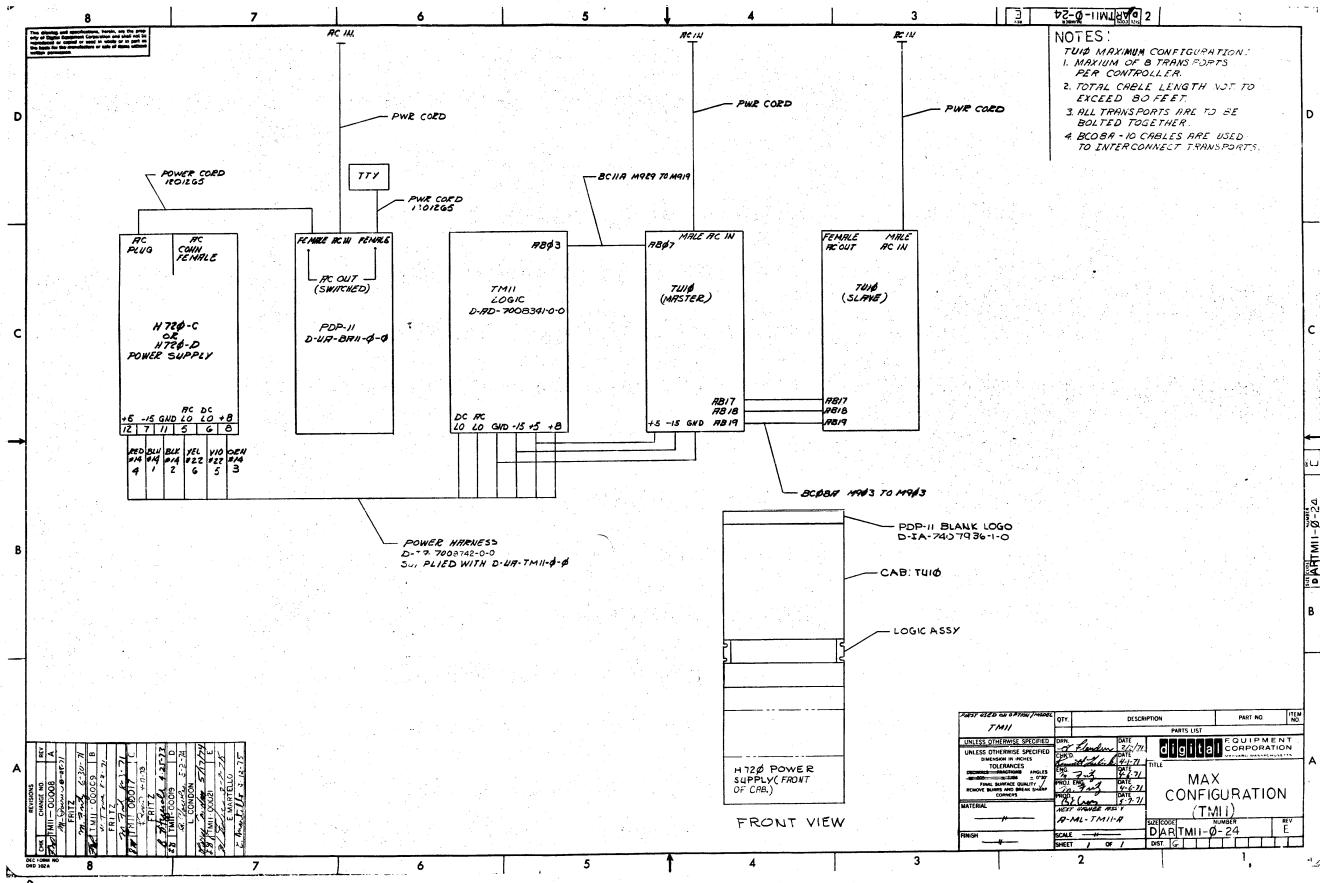








This day	ming and speci	Brothers, herein of Corporation of or used in what before or sale-	, are the prop					• •					6						5		1	1			4			1	. v		3	·		, ASI	, 7	·Ø-Ø-	IIWI	, ON C	]]2	<u>T</u>	* # 10 per 5 per	, a, ad	<u>i</u>	. 4
	ar cipied of the state of the s	<u> </u>	2		3		4		5	+-	6	4	7	_	8 4	1	9	· 	10		<u>   レ</u>	_	12		13 V149	4_	14	-	15		16		17	1	18	1	ر 19	in	20	ме". 	21 <sup>(</sup>		22	1
USAGE		LE 21	CABLE		CABLE	\$ ITE	MINATO		S E0	_		-	T	D B1	T D	2		21	T	21		-		9 BI 67	D B11	FUNC BIT	FUNC	2 1	#163	BATA BFR	CBR	ERR	SET	2 I INNIT SEL BIT TW2	M216 SEL BIT	2 t T 0 0	M121	2 I ME ENB	CUR DEL	21	W239	2 I	E CLK	2
						-		90T	#R	. 100	ROS	UNITE		D B1	0,7		VICE	,,,,,	-					96 D B1	0.811					STB 182 GO STROE	DATA BFRIN	4	}		- -	DAT BYT	E SAM	DA' BF	ŢA .	_  .		SAM	E 2	
A								RWS		2 CHA	P W01	DRIV	ÆR 	D 81	T D BIT	Si	LECTOR	COM	ERRUPT TROL	CO	IBUS STER NTROL	Ì		82 D B1		817	FUNC BIT 2	DEC	DUAL MRY TO DECODER	BRT DATA ( CUR DEL	SET	SEL 2 CORE DUMP	ERR	UMIT SEL BIT TMB		LO DAT BYT +3Y (A19	E UIN-	_	ERF	R CO	-BIT OUNTER	ET	BIT I	<u>'</u>
_				N.:	S AF	re M	AG TAF	<u></u>	N 3CHAN N 5 CHAI	7 DEN	8 PEVN			8	D BIT 9	1								88	U 811	SEC BIT	SEL BIT 8			-	INIT	READ	584	GO STRO	E RE	uov 📙	SAM TU	-	GO STF	ROB		PAE	ENB	
USAGE	UM I BIJ	S C TOR	UNIBUS	OR C	NE CT	OR TER	MINAT	OR SE	M627	2 1	CABLE	21	736	2 I D BI 97	0 BII	2 1	M784	21	W785	2	M797	2 E CI	RED COUN URRENT M ADDR	D B1		2 1	DATA BFR	2 1	T ENB SDIM GO	DIF DIR	SPAC REV	2 I E DIF DIR		2 I DAT	3. DII	2 I WOR	DAT BFR BIT	2 I IN wr	N627	SLC DUI	U113 CT Z SLC T LO OUT	2 I CT 3 GO T LO BI	1 CMA	2
								RE	SEL	км	III MAIN	,		D 811	D B11	1	BUS		BUS	REG	ISTER			D BI	- 0,811 11		BIT	SEL OUT	1 60	RD S	STB TBBFR I	BITS	_	STB		WDR GO STR	GO STR		_	SLI DUT	SLC	CT 3	BIT	
В								FW	`\_	LA	BLE NNECTOR	1 50	IORITY MPER	0 Bil	D BIT	7	ECETVER	RE	BUS IVER & CEIVER		SELECT			12 D B1	T 0 811		WOR .	GO BIT	CRCS		CORE DUMP DATA BFR I	<u> </u>	<b>W</b> 05	SAM	E BR	SPA:	GO STR 1		IT BTE	E SLO			LR. LNB	
.									SEL					96	D BIT									D 81	D BIT		GO STRO		RDS &	SBIT	<del>- </del>  -4		WD4	EOF	F ERR	·	WD		- INI	<b>іт</b> Вт	Cu	JR	wDR	R
	23	3/	24		25		26	-	27	-	28 N203		29 Janes 29 Janes 1113		30(		31		32 <sup>1</sup>	1	33	 -	34		35	<del></del>	36		37	<del></del>	38	; 	39		40		41		42	_ <u></u>	43		44	<b>」</b> ⊣
¥SAGE	D BIT	2 I D19		2 I WOR	_	2 1	A	2 I ET ILC		2 1		2 1	BR	2 1		2 1	Ī	GO STRO		2 1	1	2 1	T	2 1	T :	2 (	T	21	T	2 1	T	2 1	T	21		2 1	T	2 !	$\overline{\top}$	2 1	T	2 1	T	2
	088	WDR CUR		GSD	L CHI	1	_1_	OB GO STRO	ER B1	PAE	RLE	CRE	REV	C INIT	GO	B TIME	:R	GO STRO	)B																						-			
F <sup>A</sup>	SEL 2	GSD SLCT-4 OUT HI	NT BY	BFI IN GC STRO	TA CH R TI I EN DBE BED	TA BR	DAT BFR BIT GO STR	STR	DEE SE	STR	OB BTE		BI BTE	•	2			TIME	ER								-																	
1	086		BGL 1	DAT			DE 5	$\dashv$ _	EVEN CHAR STB		BR INT		GO STRO	BR INT				LRCS	50											-														
USAGE	M127	2 1 DATA BFRIM	W127	2 L TA R IN		2 1	MIIII CE RO	21 (	901 ABLE	M 2 I	688	2 1 1LC	PAE	21	627	2 I PAR BIT	W216	2 I DATA PTR BIT	IN 1 2 GO	2 1	<del>-</del>	2 1	<u></u>	2 1	<u></u>	2 1		2 1		2 1	<u> </u>	2 1	<u> </u>	2 !	<u>-</u> T	2 1	T	2: 1	丰	2 1	Ŧ	2 1	=	2
		BIT Ø	-   8	1 3	Bit	TA SPA R IN T 6. ROS T WRS	BE	$\neg$	SERVE			-	]-	RWD	WFWK		1	B0	п	7																								
₽		THRU	ħ	IRU			S' 00 1 1 SE LO CI	R	SERVE OR IN OUSE U	SE .		BGL ANXM CRCS		₩X6	7	GO STRO 1	B DI	F REV REV BR INT		1																								
	1 1	DATA BFR IN BIT 2	BFI BI	ATA I IN		AI CRO	7 SO	***				BIT	BR INT	+-	CIN	TIME	R PEVI		MPR SET	-																								
REV.	<b>▼</b>	<b>a</b> =	C   C		<u> </u>	LRi	27 7 1	3 R					1	—	1				سلم									Fil	RST USED	ON OPT	ION/MO	DEL U	DO NOT	SCALE DR	RAWING SPECIFIED	CHICD 7	t.ell	DATE	<u> </u>	d i g	i t a	E O	U I P M E RPORATI	101
ISIONS RE NO.	20007	00008	0000	21.	YNSKI	2000 3 2000 3	1 8K	SKI SKI																				L_				<b>-</b>	DIMEN TO ECHALS ± .005 FINAL SUR REMOVE BUIL	SCALE DR HERWISE : ISION IN INC DLERANCES FRACTIONS ± 1/64 HFACE QUALIT INS AND BRI CORNERS	ANGLES ± 0°30° TY / EAK SHARP	ENG ni	7 1.5 NG S		7) TITU	LE		ULE ZATI		
REV.	- 3E		K E	A FR	S Z		PUC Z	JCZTN JCZTN																								111	TERIAL		_	MEXT	HIGHER	RASSY	/"	U I	1-12		.014	فعمونت



	DIGITAL EQ	UIPMENT (	CORPORATION		<b>-</b>	1	UAN	TITY	/ VAR	HAT	ION	1 1
NG	E BY A. FRATICELLI 3/15/71 5/6/79	DATE 3/3/	MOSKENAL SECTION	1								
TEM NO.	DWG NO. / PART NO.		DESCRIPTION									
	G736	JUMPER MODULI	3		1							
	M1Ø5	ADDRESS SELEC	CTOR MODULE		1							
	Mlll	INVERTER			5							
	M112	NOR GATE			3							
	M113	TEN 2-INPUT 1	NAND GATES		7							
	M115	EIGHT 3-INPUT	NAND GATES		2							
	M117	SIX 1-INPUT I	NAND GATES		1					T		
	M121	AAT R GATES	3		2							
	M127	2-2-2-3 NAD/N	NOR GATE		3							
	M14	9X2 NAND WIRE	ED OR MATRIX		4							
	M1 53	DUAL BINARY	TO DECIMAL DECORDER M1	63	1							
	<b>M</b> 2Ø3	S R/S FLIP FI	LOP		1							
	M2Ø5	SET RESET FL	IP FLOP		2							
	M216	SIX FLIP FLO	PS		5							
	M239	THREE 4-BIT (	COUNTER REGISTER		1							
	M3Ø4	ONE SHOT DELA	γΣ		2							
	<b>M</b> 3,ฮ7	INTEGRATING (	ONE SHOT		1						7	
	M627	NAND POWER AM	4PLIFIER		3							
	M782I	INTERRUPT CON	TROL MODULE		1							
	M784	UNIBUS RECEIV			1						$I^{-}$	
	<b>M7</b> 85	UNIEUS TRANSO	FIVER MODULE	-	ı							
	<b>M</b> 795	WORD COUNT	CURRENT MEM ADDI	₹	1							
TITL	MODULE UTILIZA	TTON	ASSY NO. D-MU-TM11-Ø-Ø2	SIZE	PL	TM1	NU 1-Ø-Ø	MBER 2			F	ECO N
	FORM NO.16-1031	TION	<b>SHEET 1 OF</b> 2	DIS								

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

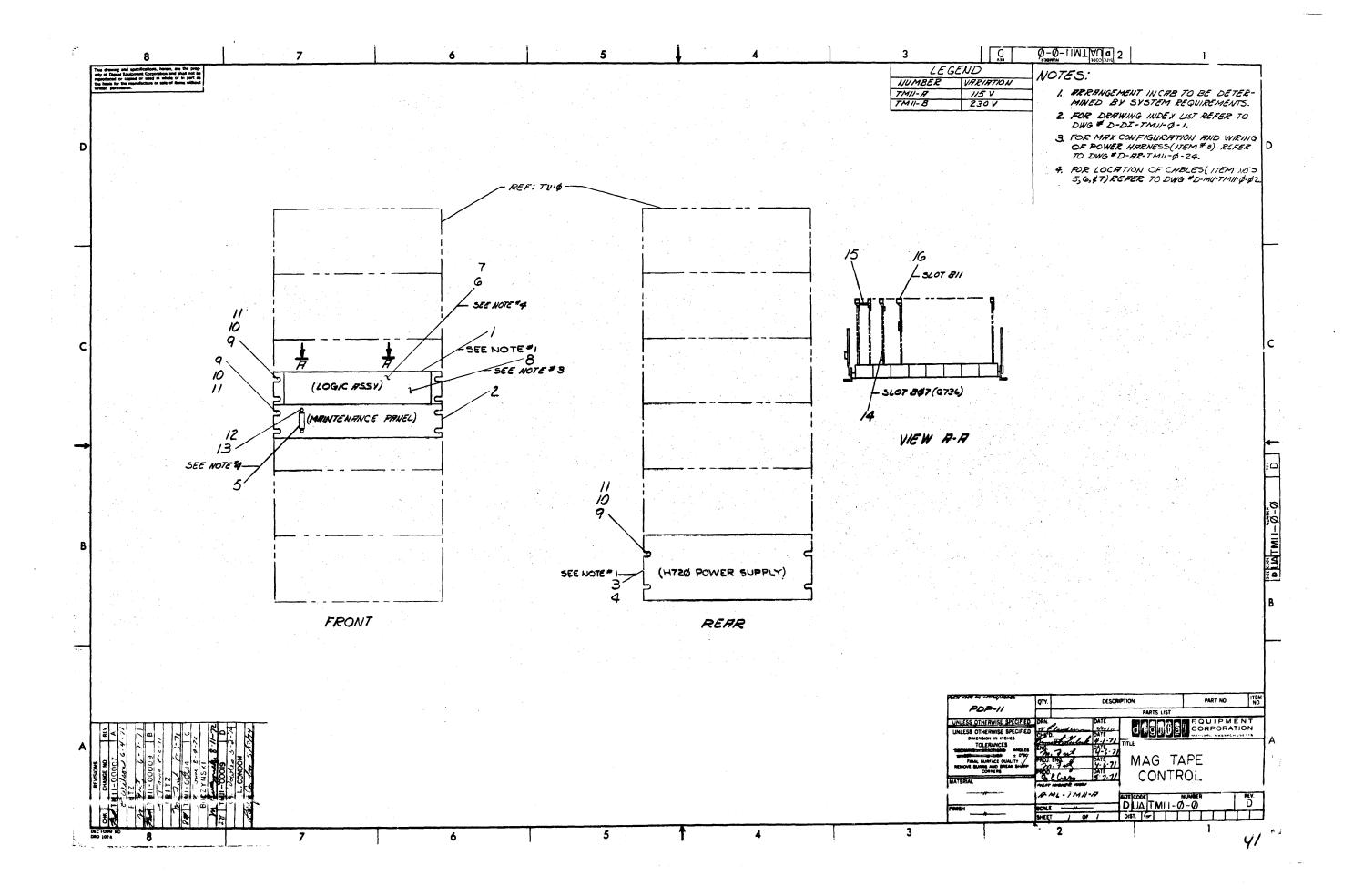
A. FRATICELLI
3/15/71 CHECKED M. M. SECTION
3/15/71 DATE 3/3//71
PROD
DATE BECASS
ISSUED SE QUANTITY/VARIATION MADE BY A. FRATICELLI DATE 3/15/71 ENG m. J.M. DATE 5/0/1 ISSUED SECT. NO DWG NO. / PART NO. **DESCRIPTION M**797 REGISTER SELECT MODULE M798 UNIBUS DRIVER 1 M796 UNIBUS MASTER CONTROL 1 MAG TAPE CABLE TERMINATOR M93Ø 1 UNIBUS POWER FAIL DRIVERS <u>м688</u> TITLE SIZE CODE ASSY NO. REV. ECO NO. TM11-Ø-Ø? D-MU-TM11-Ø-Ø2 MODULE UTILIZATION SHEET 2 OF DIST.

2

DEC FORM NO.16-1031 DRA 110

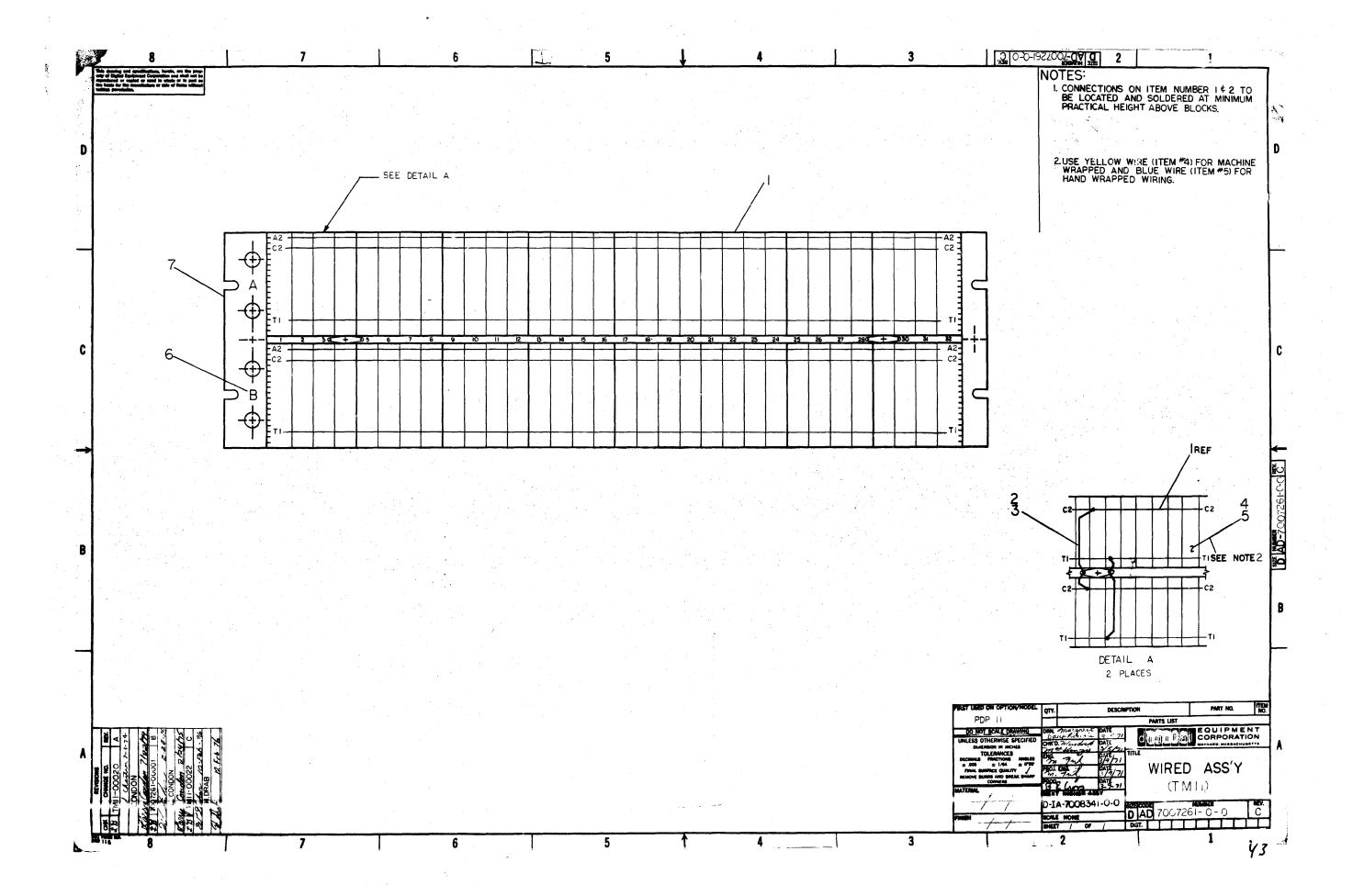
Γ			LEGEND		<u> </u>	ANTI	TV /	VARI	ATIC	<b>1 1 1 1</b>	
MAI DAI EN	ACCESS DE BY K. HAMEL CH DE 6/14/72 DA G Michael Bulsypash PR	SORY LIST  SECKED 6/1/1/2 SECTION  ATE Sorplides  ISSUED SECT.	D DOCUMENT DN DOCUMENT CHANGE NOTICE PA PAPER TAPE ASCII PB PAPER TAPE BINARY PM PAPER TAPE READ-IN-MODE	1-0				CHECK	DATE	LATION CHECK	
ITEM NO.	DWG NO. / PART NO.	DESCRIPTI	ON	TMI				ΚΪΤ	ВУ	INST	
1	TM <b>11</b> -0	COMPLETE PRINT SET (SEE A-	ML-TM11-0)	1							
2	DEC-11-HTMA-D	MAINTENANCE MANUAL		1							
3	L1B KIT-11-TM11-0	SOFTWARE KIT (SEE A-SL-TM1	1-0-28)	1							
4	BC11A-8	UNIBUS CABLE 8'		1							
	NOTE: THE FOLLOWING	ITEMS ARE REQUIRED FOR FIELD	ADD-ONS ONLY)								
5	DEC-11-HR5A-D	H720 POWER SUPPLY ENGINEERI	NG DRAWINGS	1			$oldsymbol{\perp}$				
6	DEC-11-HR5B-D	H720 POWER SUPPLY MAINTENAN	CE MANUAL	1						-	
7	MAINDEC-11-DEOGA-	GTP TAPE AND WRITE-UP (LAT	EST REVISION)								
	NOTE: THE FOLLOWING	ITEMS ARE REQUIRED WHEN UNI	T IS NOT	$\sqcup$							
	CABINET-MOUNT	ED			<u> </u>	$oxed{oxed}$					
						$\downarrow \downarrow$	11	_ _		·	
8	<b>70-</b> 8 <b>2</b> 88-8F	REMOTE SENSE CABLE (H720 P	OWER SUPPLY)	11	_	1	1.1				
9	70-7006-1	JUMPER PLUG (H720 P	OWER SUPPLY)	1	$\bot$	$\sqcup \bot$	$\downarrow \downarrow$	_  _			
10	70-7006-2	JUMPER PLUG (H720 P	OWER SUPPLY)	1.		$\bot \bot$	11				
11	BC' 1-5	MASTER INTERFACE CABLE 5'		1	4	$\bot \bot$	44	-∦_			
12	90-: 35 <b>1</b>	MOUNTING HARDWARE		1	_	$\bot \bot$	44				
7 3	91-7710/ 90-8849	HOOK UP WIRE		-	4	++	+-+				:
<b></b>				$\vdash \vdash$	4	++	++				
<u> </u>				$\vdash \vdash$	+		+-+				•
			- leur de cont	Щ	<u></u>		<u> </u>	<u> </u>	<u></u>		<b>_</b>
TITL		ASSY. NO. D-UA-TM11-0	-0 SIZE CODE		NUM 1-0			.   R	g !	CO NO [MII - 20014	
İ	DEC MAGTAPE CONTRO	SHEET OF	DIST.	T	Ī	Ī				1	

•

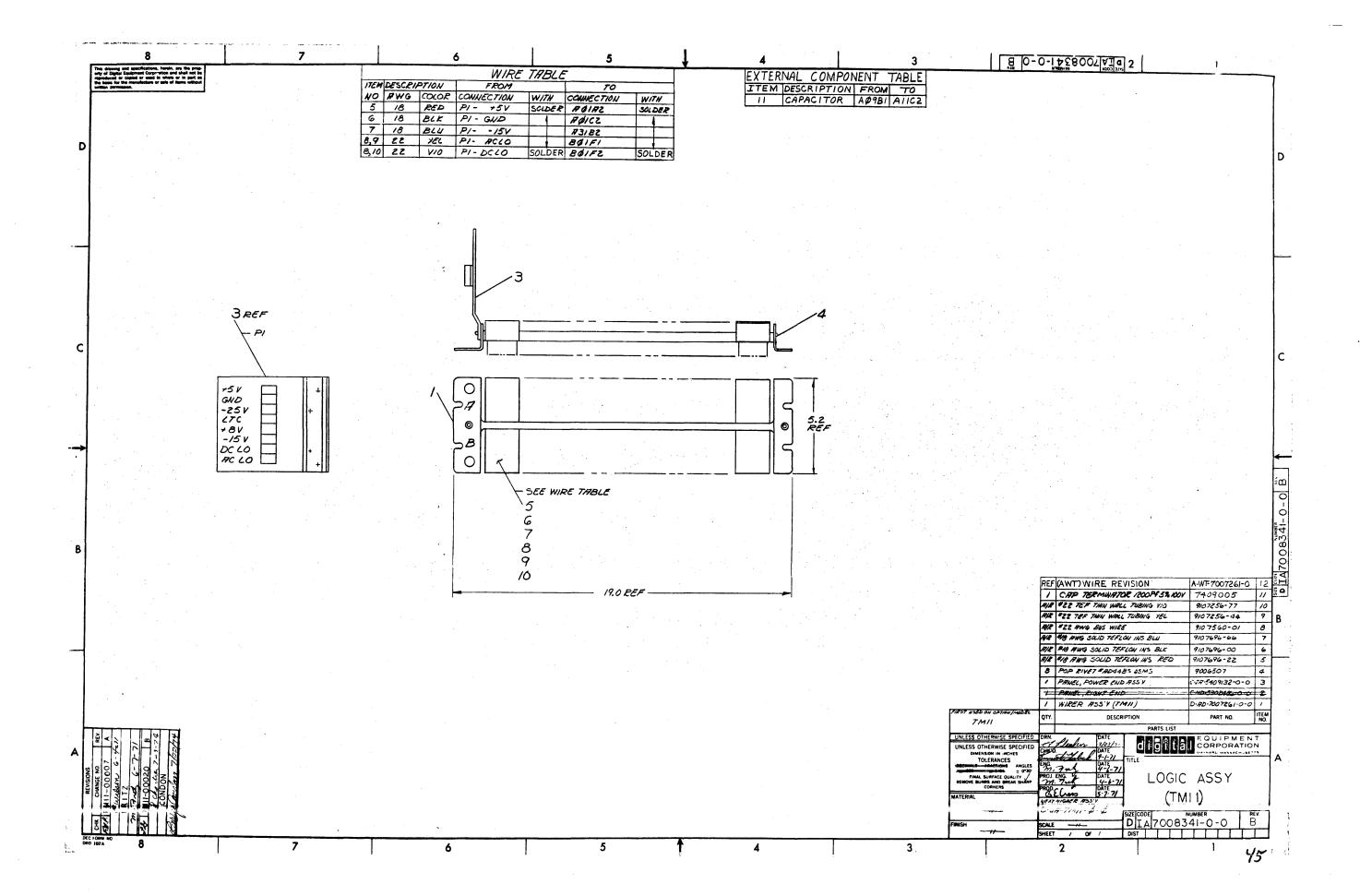


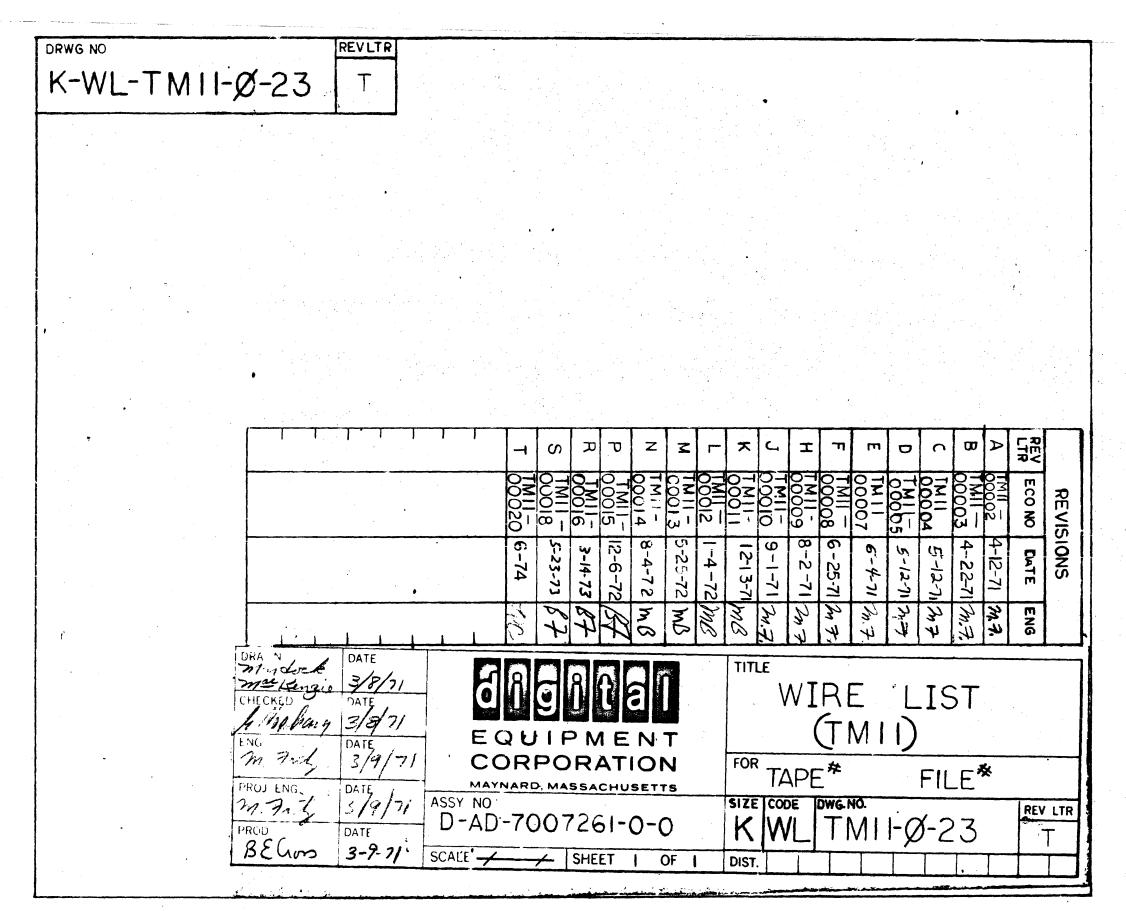
	DIGITAL EQ	UIPMENT CORPORAT	ION				QI	UAN1	ITY	/ V	ARI	ATI	ON		
		PARTS LIST													
MAD	EBY G. FLANDERS F 2/23/71	CHECKED KEN GULICK DATE 3/30/71	SECTION 1												
ENG	m, 7ng	PROD BECIES	ISSUED SECT	r.	L-A	B-1					:				
DAT		DATE 5.7-7/	1	{	TM11	TMI									ı I
NO.	DWG NO. / PART NO.	DESCRIPTIO	N 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		T	I					<u>1</u>				
1	D-IA-7008341-0-0	LOGIC ASSY (TM11)			ı	ı									_
2	D-IA-7408886-0-0	PANEL MAINTENANCE (TM11)			1	1			$oldsymbol{\perp}$						
3	D-UA-H72Ø-C-Ø	H72Ø POWER SUPPLY			1	_									
4	D-UA-H72Ø-D-Ø	H72Ø POWER SUPPLY			_	1									
5	D-IA-7007222-0-0	MAINTENANCE CABLE EXTENDE	R ASSY		1	1									
6	D-UA-BCllA-5-Ø	CABLE ASSY (BCllA)			1	1									
7	D-UA-BC11A-8-Ø	CABLE ASSY (BC11A)			1	1									
8	D-IA-7009742-0-0	POWER HARNESS			1	1									
9	9006073-3	SCR PHL HD TRUSS #10-32 x	½ SST		12	12									
10	9007786	SPEED NUT #C31758-032-27	rinn.		12	12				·					
11	9007651	WASHER EXT TOOTH #10 HOLE			12	12									
12	9006023-1	SCR PHL HD PAN #6-32 x 7/	16 LG SST		2	2									
13	9006560	NUT KEPS #6-32 SST			2	2		•							
14	C-IA-5408778-0-0	PRIORITY JUMPER LEVEL #5			1	1									
15	C-CS-1209856-0-01	MODULE HOLDER			8	8									
16	D-SC-1209818-0-0	MODULE EXTENDER H85Ø			1	1			$\top$						
17	7409748	FILLER STRIPS FRONT			1	=				7					
	74t <del>1749</del>	FILLER STRIPS KENR			ı	1			1						
				1						T					
TITL	LE MAG TAPE CONT	ROT. ASSY NO.		ZEC	ODE		rmll	NU:	MBER	1	-		EV.	ECO M COC	NO TO
ĺ	THE THE CONT	SHEET 1		DIST.	T	┰		<u> </u>	T	_	7	+	7	4	تان

DEC FORM NO.16-1031 DRA 110



	DIGITALEQ	UIPMENT CORPORAT	TION	1		QU	TNA	TY	/ VAF	RIAT	TION						
	· · · · · · · · · · · · · · · · · · ·	PARTS LIST															
MAD	E BY M. MACKENZIE	CHECKED M. MACKENZIE	SECTION	1													
DAT		DATE 3/5/71	1	4													
DAT	m 7 mil	PROD BEGOS DATE 3-9-71	ISSUED SECT.												•		
TEM	DWG NO. / PART NO.	DESCRIPTION	ON														
1	9008428	BUS STRIP		A/I													
2	9107560-01	22 AWG BUS WIRE		A/I	·											٠	
3	91 <b>07256-</b> 09	#22 TUBING, TEFLON, WHIT	<u> </u>	A/I										;			
4	9105740-44	30 AWG SOLID KYNAR INS.	VIRE, YELLOW	A/F								T					
5	<b>3105740-</b> 66	30 AWG SOLID KYNAR INS.	VIRE, BLUE	A/F										•			
6	A-DC-7406371-0-0	LOGIC FRAME DECALS		A/F													
7	D-AD-5404491-0-0	H911 MTG PANEL		1			1						$\Box$				
8	A-DC-7411881-01	DECAL LOGIC ASSY.		1			1	1		十							•
9	K-WL-TM11-Ø-23	WIRE LIST		REF			$\top$			丁	1	1	T	-	•		
 10	A-WT-7007261-0	AWT REVISION STATUS		REF	1		1			1	1	1					
11	3700040-0-0	PACKAGING INSTRUCTIONS	······································	REF	1			T					T				
12	9905016-4	COMPRESS-O-CARTON		A/F	1		1			T		1		:	•		•
				1								1					
			· · · · · · · · · · · · · · · · · · ·	╢			1										
				1						1		1	$\top$				
				1			1			$\neg$	_	1	1				
			· · · · · · · · · · · · · · · · · · ·	╫		i-	十	†		$\top$	+	<del>                                     </del>	1		*		
				╫┈			1	<del>                                     </del>		+	_	1	一				
				╫─			+	†		+	$\neg \vdash$	†	$\vdash$				
				╢	$\vdash$		$\top$	T	f	+	$\dashv$	+					
				+	$\vdash$		+	+	+	+	$\dashv$	+-					
				╫─	$\vdash$		<del> </del>		1	$\dashv$	+	+-	一				
ΓΙΤΙ	E	ASSY NO.	Tsize	CODI			NUM	BER	<u></u>		REV	ECO	NO.				
	WIRED ASSY	n-AD-7007	I	PL		70072					C	TM 1000	11-				
	•	SHEET 1	OF 1 DIS		-		T	T	T	П	ነ	1000	166.				





1	TM11.T RUN NAM	46	HND288,V7 A/P PIN NAME	22(22) 11/06/73 ORDER BAY - PIN ORDER	Q DRAW RV	PG Y X	Z REMARKS	8-JUL-74 Length	EXCEPTIONS 8:51	PAGE 1 RUN NUMBER
	+3V A1: +3V A1: +3V A1: +3V A1:	.U1 .U1	A14N2 A14R1 A14U2 A1GUI	1*01 * 1*02 * 1-03 * 1-04 * 1	TM11=10 TM11=10 TM11=10 TM11=10		2 1 2	8-4/8		
	+3V A19 +3V A19 +3V A19	ייטו טו	A18K2 A19U1 B31U2	1=01 * 1=02 * 1=03 * 1		I R1 R1	2 1	13-2/8		2 2 2 2
	+3V A25 +3V A25 +3V A25 +3V A25 +3V A25 +3V A25	01 01 01 01 01	A24F2 A24D1 A24K1 A24M2 A24M2 A25U1	1-01 * i +02 * i +03 * i +04 * i +05 * i +06 * i	TM11=08 TM11=08 TM11=08 TM11=17 TM11=17		1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14-0/8		3 3 3 3 3 3
PMENT	+3V A25 +3V A25 +3V A25	5 V 1	A24R1 A25V1	1+01 + 1-02 + 1	TM11-17 TM11-17			3-0/8		4 4 4
	+3V BUS	501 501 501 501 501 501 501 501	805H1 805E2 805F2 805G1 805G2 805H2 805K1 805M2 805M2	1+01 # 1+02 # 1+03 # 1+04 # 1+05 # 1+06 # 1+07 # 1+08 # 1+09 # 1+10 # 1+10	TM11-07 TM11-10 TM11-10 TM11-07 TM11-10 TM11-10 TM11-10 TM11-10 TM11-10 TM11-10		2 1 2 1 2 1 2 1 2	24-6/8		5 5 5 5 5 5 5 5 5 5
-	+3V BUS +3V BUS +3V BUS +3V BUS +3V BUS +3V BUS +3V BUS	V I V I V I V I V I V I	B05A1 B05B1 B05C1 B05S2 B05T2 B05V1 B05U2	1+01 # 1+02 # 1+03 # 1+04 # 1+05 # 1+06 # 1+07 # 1	TM11-04 TM11-04 TM11-04 TM11-05 TM11-10 TM11-10 TM11-10		2 1 2 1 2 1	16-6/8		6 6 6 6 6 6

	TM11 RUN			ΑZE	, (	288.\ ?[n  ame	O	22) RDEI PIN		/06/ BAY ORDI	-	,	Q	DRAF	RV	PG 1	X	z	REA	ARKS	•	8=,	-JUU 1	74 Engt	Н	EXC EXC	51 EPTI	UNS		E 2 Jn 4beh
G	+ 3 V	B14U1				A14D	l.			1+0	: 1 #		٠.	TM11	-07		1.5	2											7	
9	+3V +3V	B14U1 B14U1 B14U1				A14F	l			1-0:	3 *			TM11 TM11	-07			1 2	. · · · .										7	
		61401				B14U	•			1	't #			161	-07								, 1	1-6/	B				į	
	<b>+3</b> V	B14VI B14VI B14VI				A12B A12F A100	٠.			1+0 1+0 1-0	2 #	١.		TM11 TM11 TM11	-18	Tr s		2 1 2			•							*	8 8	
9	+3V +3V	B14V1 B14V1 B14V1				ALIS BI4V	ı			1-0	4 # 5 #	,		TM11	-24			1					1	5=0/:	8				8 8	
	+37	B1501				B140	1		٠	1=0	1 *	,		TM11		- Tr		1							1. S				9	
0	+3V	61501 61501 61501				814P 815U				1-0 1-0				TM11				2			-			6 <b>-4</b> /	8				9 9 9	
0	+37	B19U1			٠	B18A B19U				1 → 0 1 <b>=</b> 0				TM11	-05 -05			1											10	
<b>₽</b>	+37	B1901								1					•		 		•					4-4/	8				10	
O TO	+3V	B19VI B19VI B19VI			•	A18D A18F A18K	2			1=0 1=0 1=0	2 *	,		TM11 TM11 TM11	+10		i A	1 2											11 11	
	+3V +3V	B19VI B19VI B19VI				B18K B19V B20H	2			1-0	5 4	ŀ		TM11 TM11	1=17 1=17		4.0	1 2 1			. W					•		•	11 11	
(a)	+3V +3V	B19VI B19VI B19VI			· .	B20E	2		•	1-0	7 *	,		TM1	-16			2					2.	3 <b>&gt;</b> 6/	8				11 11	
•	+3V	B20U1		• •		820J		-13, <sup>7</sup>		1-0 1-0					-10  -10			2		* -				77 TY					12	* (* ) }
6	+3V +3V	F2001				B2UK B2UN	1		٠	1-0	3 +	i i		TM1	1-10 1-16			2							j.		÷.		12	} }
9	+3V +3V	B2001			:	8208 8200	2 1			1=0	6 +	• . •	.N	TM1	1-16 1-16			1 2											12	
	+3V +3V	H20U1 B <b>2</b> 0U1				8200 820R <b>B20T</b>	ı			1-0	9 1	٠		TM1	1-16 1-16 1-16	Ä		2	. 7					,;		-		e.	12	<u>}</u>
•	+3V +3V +3V +3V +3V +3V +3V +3V	B2001 B2001 B2001 B2001 B2001 B2001 B2001 B2001				B20H B20K B20N B20P B20S B20U B20U B20R	1 1 1 2 2 1 2			1-0 1-0 1-0 1-0 1-0 1-0	2 4 4 5 4 5 6 7 8 9 4			TM1 TM1 TM1 TM1 TM1 TM1 TM1	1-10 1-10 1-16 1-16 1-16 1-16			2 1 2 1 2 1 2 2 1 2					2	3=6/	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					12 12 12 12 12 12 12 12 12 12

8	71	TM1 RUN	1.T Name	AZU	HND288.V2 P1N NAME	2(22) 11 ORDER PIN	/06/73 BAY - URDER	G G	DRAW RV	PG Y	X	Z REMARKS	8-JUL-74 Length	8:51 EXCEPTIONS	PAGE 3 RUN NUMBER
		+3V +3V	82201 82201 82201 82201		82201 822H2 822H1 822P2		1=01 4 1=02 4 1=03 4	)	TM11-04 TM11-25 TM11-11	ĭ		2 1 2		, in the second	13 13 13
	am	+3V +3V	32201 82201 82901		B22U1		1-05 4		TM11-25				11-4/8		13 13
	.~	+3V +3V	B2901 B2901	•	83101		1-02		TM11-25				4-4/8		14
	then!	+3V +3V +3V	B30U1 B30U1 B30U1 B30U1		830C1 830D1 830J1 830L2		1=01 4 1=02 4 1=03 4 1=04 4	) }	TM11-07 TM11-07 TM11-07 TM11-07			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			15 15 15 15
		+3V +3V +3V	83001 83001 83001 83001		B30K1 B30M2 B30N2 B30R1		1-05 a 1-06 a 1-07 a 1-08 a	} } }	TM11-07 TM11-07 TM11-07 TM11-07			1 2 1 2			15 15 15
	U.P.W.E.N.T	+3V +3V	83001 83001 83001		B30P1 B30U1		1=09 + 1=10 + 1		TM11-07 TM11-07			1,8. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	24-0/8		15 15 15
	00 00 00 00 00 00 00 00 00 00 00 00 00	+37	H30V1 H30V1 H30V1 H30V1		B30T2 B30V1 B30U2		1-01 4	٠,	TM11-07 TM11-07 TM11-07			1	5=2/8		16 16 16 16
	₩	+3V +3V +3V	83201 83201 83201 83201		831R1 832U1 831N2		1-01 4 1-02 4 1-03 4			R1 R1 1		1 2	6~0/8		17 17 17 17
	<i>;</i> 3	+ 8 V			80681	,		:	TM11-03					1-PIN RUN	18
	er y	7 CI 7 CI 7 CI 7 CI	i .		A05E2 B04P2 B03P2		1-01 4 1-02 4 1-03 4	L C	TM11-08 TM11-02 TM11-02			2	9-0/8	TERM HERE? Cable Cable	19 19 19 19
	87 - 1	7 CH 7 CH 7 CH 7 CH	<del>i</del> I <del>i</del>	H H H	A05F2 A06K2 B06K1 B08J1		1-01 4 1-02 4 1-03 4 1-04 4	C	TM11-08 TM11-08 TM11-12 TM11-03	.p		1 2 1 2		TERM HERE?	20 20 20
	sî.	7 Ci		 н	A1781		1=05 ±		TM11-08				19-2/8	TERM HERE?	20 20

TM11.T RUN NAME	HND28 A/P PIN NAM		/06/73 BAY - 0 DRDER	DRAW RV PG Y X Z REMA	8-JUL-74 8:51 PAGE 4 RKS LENGTH EXCEPTIONS RUN NUMBER
7 CH 7 CH 7 CH 7 CH 7 CH 7 CH	L B1 L B1 L B2 L B2	981 982 982 951	1-01 * 1-02 * 1-03 * 1-04 * 1-05 *	TH11=08 2 TH11=09 1 TH11=09 2 TH11=15 1 TH11=15	21 21 21 21 21 21 21 21 21 21
A01 A01 A01	н в	UN2 1C1	1=01 # 1=02 #	TM11-25 TM11-26	22 22 22 3-4/8 22
A02 A02 A02		01,2 181	1=01 * 1=02 *	TM11-25 TM11-26	23 23 23 23
AU3 AU3 AU3	H 61	0J2 152	1-01 * 1-02 * 1	TM11-25 1 TM11-26	24 24 1021-2 1021-13-2/8 1021-13-14-14-14-14-14-14-14-14-14-14-14-14-14-
A16 A16 A16	н 92	0 <b>12</b> 26H2 09E2	1-01 # 1-02 # 1		10-6/8 25
A16 A16	L B2	6J2	1-01 #	TM11-15	26 12-2/8 26 27
A16C1 A16C1 A16F2 A16F2 A16F2	A2	20F1 10F2 20E2	1-02 *	TM11=15  TM11=06  TM11=06	4+6/8 27 27 28 28 29 28 28
A16K2 A16K2 A16K2 A16K2 A16K2 A16K2 A16K2 A16K2	82 82 83 83 84 84 85 85	16K2 23A1 23F1 23H1 24H1 24F1 24A1	1=01 + 1=02 + 1=03 + 1=04 + 1=05 + 1=00 + 1=07 + 1=08 + 1=	TM11=15 TM11=18	29 29 29 29 29 29 29 29
A16K2 A16K2	<b>62</b>	25F1	1-09	TW11-15	29 26-6/8 29

<b>€</b>	TM11.T RUN NAME	HND288.V27 A/P PIN NAME	2(22) 11/06/73 ORDER BAY - PIN ORDER	O DRAW RV PG Y X	Z REMARKS	8-JUL-74 Length	8151 EXCEPTIONS	PAGE 5 RUN Number
-30								
•	A16N2 A16N2 A16N2	A16N2 B32R2	1-01 * 1-02 * 1	TM11-11 TM11-11		11-4/8	ere in	30 30 30
_	A1651 A1651 A1651	A1651 A20D2	1=01 # 1=02 # 1	TM11-06 TM11-06		5-2/8		31 31 31
•	A1682 A1682	A1682 A1672	1=01 # 1=02 #	TM11-16 TM11-16	1	2=4/8		32 32 32
4	A1652					2-4/6	* _	.72
<b>M</b>	A17 A17 A17	H 810V2 H 82GJ1	1=01 # 1=02 #	1 1		10-6/8		33 33 33
	A17	L BZGKT	1-01 #	1	1			34
ø	A17 A17	L A09D1	1-02 + 1			12=2/8		34 34
3 0	A1701	A17DI	1-01 #	TM11=17	1			35
CORPORA	A1701 A1701	A2/H2	1=02 * 1	TM11-17		7-6/8		35 35
. ■	A17H2	A17H2	1-01 #	TM11-04	1			36
€ :3	A17H2 A17H2	80501	1=02 # 1	TM11-04		9-4/8		36 36
2	A17.J1	A17J1	1-01 *	TM11+17	1			37
6	A17J1 A17J1	A2762	1=02 # 1	TM11-17		7=6/8.		37 37
1.5	A17H2	A17H1	1-01 #	TM11-17	1			38
્ક	A17M2 A17M2	ATVM2	1=02 *	TM11-17	3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	3-0/8		38 38
5.70	A1782	A1782	1-01 #	TM11-11	1			39
4,3	A1782 A1782	82902	1-02 *	TM11-11		9-4/8		<b>39</b> 39
ಾ	A18U1 A18U1 A18U1	A18U1 A29U2	1-01 # 1-02 #	TM11-04 TM11-04		8-0/8		40 40 40
ൗ	ALVEI	A19E1	1-01 #	TM11-25				41
	A19E1 A19E1	A23A1	1-02 #	TM11-25		4-4/8		41 41
(F							the second	1
<b>3</b>								
3								
5							•	

A19U2 A19U2 A19U2 I-01 * TRII-05 I 3-6/8 42 A19U2 A19U2 A19P2 A19P2 I-01 * TRII-05 I 3-6/8 42 A19P2 A19P2 A19P2 I-01 * TRII-05 I 4-0/8 43 A19P2 A19P2 A19P2 I-01 * TRII-05 I 4-0/8 43 A19P2 A19P2 A2PFI I-02 * TRII-05 I 4-0/8 43 A19P2 A19V2 A2PFI I-02 * TRII-05 I 4-0/8 43 A19P2 A19V2 A2PFI I-01 * TRII-05 I 4-0/8 43 A19V2 A19V2 A2PFI I-01 * TRII-05 I 4-0/8 44 A19V2 A2PFI B140FI I-02 * TRII-05 I 4-0/8 45 A2UEI A2UEI B140FI I-02 * TRII-11 I 4-0/8 45 A2UEI B140FI I-02 * TRII-11 I 4-0/8 45 A2UEI B140FI I-02 * TRII-06 I 4-0/8 45 A2UEI B140FI I-03 * TRII-06 I 4-0/8 45 A2UEI A2UEI B140FI I-03 * TRII-06 I 4-0/8 46 A2UEI A2UEI B140FI I-03 * TRII-06 I 4-0/8 46 A2UEI A2UEI A2UEI I-01 * TRII-17 I 4-0/8 46 A2UEI A2UEI A2UEI I-02 * TRII-17 I 4-0/8 46 A2UEI A2UEI A2UEI I-02 * TRII-17 I 4-0/8 46 A2UEI A2UEI A2UEI I-02 * TRII-17 I 4-0/8 46 A2UEI A2UEI A2UEI I-02 * TRII-17 I 4-0/8 46 A2UEI A2UEI A2UEI I-02 * TRII-17 I 4-0/8 46 A2UEI A2UEI A2UEI A2UEI I-01 * TRII-17 I 4-0/8 46 A2UEI A2UEI A2UEI A2UEI I-01 * TRII-06 I 5-0/8 50 A2UEI A2UEI A2UEI I-01 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-01 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-01 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-01 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-02 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-02 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-02 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-02 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-02 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UEI I-02 * TRII-05 I 5-0/8 50 A2UEI A2UEI A2UEI A2UII A2UII A2UII I-02 * TRII-05 I 5-0/8 52		1.T NAME			۸/۱	P P		2(22) ORDE	CR .	OGZZZ BAY - ORDER	-	Q	DRAW R	V PG	Y	x :	Z 1	REMARK		6-JUL	-74 Length	8:5 EXCE	1 PTION	PAGE RU Num	N
A19U2 A19U2 A19U2 A19P2	A 4 4	19											=u41-0								•				
A1992	A19	J2								1-02							•				3=6/8			42	ia N
A1992 A1992 A1992 A1992 A1992 A1992 A1992 A2981 A2081 A2092 A2002			<i>:</i> •														<b>3</b>								
A19V2 A19V2 A19V2 A2U21 A2U21 A2U21 A2U21 A2U22 A2U32 B15L2 1-01 * TM11-06 2 A2U32 A2U32 A2U32 A2U32 A2U32 B15L2 1-03 * TM11-06 2 A2U32 A2U32 A2U32 A2U32 B15L2 1-03 * TM11-06 2 A2U32 A2U32 B15L2 1-03 * TM11-17 1 477 478 484 47 A2U51 A											<u>.</u>										4-0/8			43	
A2UE1 A2UE1 B14B1 1-01 * TM11-11 1 6-2/8 45 A2UE1 B14B1 1-02 * TM11-11 6-2/8 45 A2UE1 A2UE1 B14B1 1-02 * TM11-06 2 46 A2UUZ A2UUZ B15UZ 1-03 * TM11-06 2 46 A2UUZ 1 1 13-4/8 46 A2UE1 A2UE1 A2UE1 1-01 * TM11-17 1 5-6/8 47 A2UE1 A2UE1 A2UE1 1-02 * TM11-17 1 7-0/8 48 A2UUZ A2UE1 A2UE1 1-02 * TM11-04 1 7-0/8 48 A2UUZ A2UE1 A2UE1 1-02 * TM11-04 1 7-0/8 48 A2UUZ A2UE1 A2UE1 1-02 * TM11-04 1 7-0/8 48 A2UUZ A2UE1 A2UE1 1-02 * TM11-04 1 7-0/8 48 A2UUZ A2UE1 A2UE1 1-01 * TM11-04 1 7-0/8 48 A2UUZ A2UE1 A2UE1 1-01 * TM11-05 1 5-4/8 50 A2UE1 A2UE1 A2UE1 1-02 * TM11-05 1 5-4/8 50 A2UE1 A2UE1 A2UE1 A2UE1 A2UE1 1-02 * TM11-05 1 5-4/8 50 A2UE1 A2UE1 A2UE1 A2UE1 A2UE1 1-02 * TM11-05 1 5-4/8 50 A2UE1 A2	A15	V 2							5.11	1-02							1				4=2/R				
A2051 A2051 A2051 A2051 A2051 A2051 A2051 A2052 B15L2 1-03 * TM11-06		-	. •				AZOFI						TM11-1	•			•								
A20J2 A20J2	A20	E1			٠			14.3		1-02					34 <sub>1</sub> ,						6-2/8			45	
A2UV2 A2UP2 B18S2 1=02 * TM11=17 1 47 A2UP2 B18S2 1=02 * TM11=17 1 5=6/8 47  A2UP2 A2UP2 B18S2 1=02 * TM11=17 1 5=6/8 47  A2US1 A2US	A2	)J2					A2UJ2			1-02	#						1 2				4.			46	100
A2UP2	A21				1.		81962				•		TW11+0	<b>b</b>							13-4/8				
A2US1	A A2	)P2								1-02							1	e e			S=6/0			47	
A2US1 A2HAI 1-02 # 1	ď	. **					A2081			. T		÷.					•				5-0/6				100
A20V2 A32D1	A2	51						+ ** .		1-02							•		eras i	•	7-0/8	•		48	•
A22D1     A22D1     1=01 * TM11=17     1     50       A22D1     A2B1     1=02 * TM11=17     50       A22D1     1=02 * TM11=17     5=4/8     50       A22H2     A22H2     1=01 * TM11=05     1     51       A22H2     A29D1     1=02 * TM11=05     51       A22H2     A29D1     1=02 * TM11=05     51       A22H2     A29D1     1=02 * TM11=05     51       A22H2     A22J1     1=01 * TM11=05     1       A22J1     A22J1     1=01 * TM11=05     1       A22J1     B18J1     1=02 * TM11=05     1									¥			, .					1						na et Na et		
A22D1 A2BJI 1=02 * TM11=17 50 A22D1 5 50 A22D2	۸2	)V2				,				1,	5	1				- 44					8-6/8		, · · ·		24.0
A22H2 A29D1 1-02 * TM11-05 51 51 A22H2 1 1 6-078 51 51 6-078 51 51 6-078 51 6-078 51 6-078 51 6-078 51 6-078 51 6-078 52 6-078	A2	201			• •					1-02	#						1				5-4/8	<b>,</b>		50	
A22H2 1 6-0/8 51  A22J1 A22J1 1+01 # TM11+05 1 52  A22J1 B18J1 1+02 # TM11+05 52				1								,					1					41.			
A22J1 518J1 1-02 * TM11-05				-	• *		42701				<b>*</b>	٠,	1011-0	J							6-0/8				
	A2	2J1						i jar k									1				6=0/8			52	

v
~
•

•	TM11.T RUN NAME	HND288,V22(22) A/P PIN ORDER NAME PIN		URAW RV PG Y	X Z REMARKS	8-JUL-74 Length	8151 PAGE 7 Exceptions Run Number
æ. ◆	A22M2 A22M3 A22M2	A16H2 A22M2	1-01 + 1-02 + 1-	TM11=16 TM11=16	<b>1</b>	5-4/8	83 83 83 83
a.	A22N1 A22N1 A22N1	A22N1 A2GH2	1-01 # 1-02 #		• • • • • • • • • • • • • • • • • • •	4-6/8	54 64 78 84
•	A22V1 A22V1 A22V1	A22VI A28FI	1-01 # 1-02 # 1	TM11-17 TM11-17		6 <b>~</b> U/8	55 54 55
ଶ	A23J2 A23J2 A23J2 A23J2	A26D2 A23J2 A25A1	1=01 + 1=02 + 1=03 +	TM11=07 TM11=07	1 2	7+4/8	56 56 56 56
Ø	A23L2 A23L2	A16P1 A23L2	1=01 # 1=02 #	TM11-06 TM11-06	•	6-4/8	57 57 57 67
CORPORATION	A24F1 A24F1	A24F1 A26T2	1=01 # 1=02 #	TM11-08 TM11-08	<b>1</b> 1.25	4-2/8	58 58 58
dignitan	A24J2 A24J2	A06V1 A24J2	1=01 #	TM11-08 TM11-08	. 1	12-2/8	.59 59 59
<b>,48</b>	A25C1 A25C1 A25C1 A25C1 A25C1	A25C1 B14P2 B14U1 B22T2	1=01 # 1=02 # 1=03 # 1=04 #	R1 R1 R1 1	2	19-0/8	60 60 60 60 60
si O	A25F1 A25F1 A25F1	A25F1 A2881	1=01 * 1=02 * 1	1	1	4-2/8	61 61
.O	A25F2 A25F2 A25F2	A25F2 B14D2	1-01 # 1-02 # 1	1		9=0/8	62 62 62
c	A25K1 A25K1 A25K1	A25K1 B2UC1	1=01 + 1=02 + 1	R1 R1		5-6/8	63 63
9							
é							
<b>3</b>							
(3)	TM11.T	UNIVARI VAZZZZZ				8-JUL-7 <b>4</b>	8151 PAGE 8
•	RUN NAME	AND PIN ORDER NAME PIN	BAY - Q ORDER	DRAW RV PG Y	X Z REMARKS	GENGTH	EXCEPTIONS RUN NUMBER
•	A25K2 A25K2 A25K2 A25K1	A25K2 B14A1	1=01 # 1=02 #	TH11-11 TH11-11		8#6/8	64 64
•	A25N1 A25N1	A25N1 B31H1	1-01 # 1-02 #			6+2/8	65 65 65
•	A2581 A2581 A2581 A2581 A2581 A2581	A2581 B25D2 B25K2 B24K2 B24K2 B24R2	1=01 # 1=02 # 1=03 # 1=04 # 1=05 #	TM11-15 TM11-15 TM11-15 TM11-15 TM11-15		12-6/8	66 66 66 66 66
0	A2582 A2582 A2582	A2582 B25C1 B25J1	1-01 # 1-02 # 1-03 #	TH11-15 TH11-15 TH11-18			67 67 67 67
O STATE OF	A2582	824P1 824J1 824C1 823C1	1-04 # 1-05 # 1-00 # 1-07 # 1-08 #	TM11-15 TM11-15 TM11-15 TM11-15			67 67 61 67
	A2582	823J1 823P1 A25V2	1-01 *	TM11-15 TM11-15 TM11-17		24-6/8	67 67
9		82972 B18N1	1-02 *	TM11=17 TM11=16		7-0/8	68 68 69
•	N26C1 A26C1 A26C1	A2GC1	1-01 +	TH11-16		7-2/8	69. °
•	A26F2 A20F2 A26K2	B20D1 A26K2	1-01 +	TH11-04		6=6/8	70 70 70 70 70 70 70 70 70 70 70 70 70 7
•	A20K2 A20K2 A20K1	B19H2 A26N1	1-02 +	TM11-04  TM11-11		7-0/8	71
9	A26N1 A26N1	A28U2	1+02 +	THII-II	d v <del>i v 2000</del> et 2000. Distrib	3=6/8	72
¢:	and the second s	an a	ngan sagai sagai sagai sa sagai br>Na	oran and and reduced and a second and a second	The same and the s	mangasi di kabupaten di	
3							

.09	TM11.T RUN NAME	AZP	D288.V27 PIN NAME	(22) 11. ORDER PIN	/06/73 BAY = ORDER	ù	DRAW RV	PG Y	X	Z REMAR	8-JUL-74 LENGTH	8151 EXCEPTIONS	PAGE 9 RUN NUMBER
•	A26N2 A26N2 A26N2 A26N2		A26N2 B25F2 B25M2 B24N2		1=01 4 1=02 4 1=03 4 1=04 4	par 1. F	TM11-15 TM11-15 TM11-15 TM11-15			2 1 2 1			73 73 73 73
•	A20N2 A20N2 A20N2 A26N2 A26N2		B24M2 B24T2 B24U2		1=05 4 1=06 4 1=07 4		TM11-15 TM11-15 TM11-15			2	18=2/8		73 73 73 73
<b>6</b>	A2682 A2682 A2682		A2652 A29L1		1-01 + 1-02 +	•	TM11-04 TM11-04			1	4=0/8		74 74 74
•	A27C1 A27C1 A27C1		A2251 A27C1		1=01 # 1=02 #		TM11-16 TM11-16			1	5-4/8		75 75 75
<b>€</b> 1 -z	A27F1 A27F1 A27F1		A24U2 A27F1		1=01 + 1=02 +		TM11-16 TM11-16			<b>1</b>	4-2/8		76 76 76
CORPORATION	A27F2 A27F2 A27F2		A23L1 A27F2		1=01 + 1=02 + 1		TM11-10 TM11-10			1	4+6/8		77 77 77
•	A27K1 A27K1 A27K1		A2002 A2/KI		1-01 + 1-02 +		TM11-04 TM11-04				6-0/8		78 78 78
9	A27K2 A27K2 A27K2		A2UK2 A27K2		1+01 + 1-02 +		TH11-17 TH11-17				5=6/8		79 79 79
9 9	A27N1 A27N1 A27N1		A2/D1 A2/N1		1=01 4 1=02 4		TM11-16 TM11-16			1	3-2/8		80 80
9	A27N2 A27N2 A27N2		A20L2 A27N2		1-01 4		TH11-17 TH11-17				6-0/8		81 81 81
` <b>.</b>	A2751 A2751 A2751		A31K2 A31L2 A2781		1-01 ( 1-02 ( 1-03 (	) 		I 1	hall in	1 2 1			82 82 82
3) B	A2751 A2751		B2uF1		1-04 +			1			11=6/8		82 82
<b>3</b>													
• ·													
3													
<b>9</b> .													

R	M11.T	V\6		2(22) 11/ URDER PIN	OG/73 BAY = ORDER	٥	DRAW RV	PG Y	X	2	REMARKS	8+JUL-7 LE	4 NGTH	8151 EXCEPTIONS	PAGE 10 RUN NUMBER
٨	2782 27 <b>52</b> 2782		A2782 B2172		1=01 + 1=02 + 1			1		•		6.	-4/8		83 83 83
A	128P1 128P1 128P1		A28P1 B21M2		1-01 # 1-02 # 1			1		1		6.	-6/8		84 84 84
٨	128R1 128R1 128R1		A2701 A28R1		1-01 #		TM11-04 TM11-04			1		3.	-2/8		85 85 85
A	\29 <b>F2</b> \29 <b>F2</b> \29F2		A28L2 A29F2		1=01 # 1=02 #		TH11-11 TH11-11			1			-0/8		86 86 86
Ą	129K1 129K1 129K1		A29K1 B3082	B3052	1+01 * 1+02 *		TM11-17			1		6.	-2/8		87 87 87
A A	129K2 129K2 129K2		V54K5		1-01 # 1-02 #			1 1					-0/8		88 88
A	129N1 129N1 129N1		A28V2 A29N1		1+01 # 1-02 #		TM11-04 TM11-04			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			-2/8		89 89 89
	A29N2 A29N2 A29N2 A29N2		A29N2 B2UK2 B2UL2		1-01 # 1-02 # 1-03 #			R1 R1 I		2 1		100	•4/8		90 90 90 90
	A2951 A2951 A <b>295</b> 1		A26J2 A2981		1-01 # 1-02 #	arg.	TM11-16	R1		. <b>1</b>		3•	·6/B		91 91 91
- 1	A2982 A2982 A2982		A22V2 A2982		1=01 + 1=02 + 1		TM11-17 TM11-17		9	. 1			·0/8		92 92
- 1	A29V2 A29V2 A29V2		A2972 A32E1		1-01 +		TM11-04 TM11-04			1			4/8		93 93 93
		2.1.1.3.4		in and a second second	in the state of	1. July 1	Link Parasi	na Yasi	Strang Lives		والسائلة الأنداء للمائد			1 254 x 1 2 2	ing one one
					•										
		•													
								**							· · · · · · · · · · · · · · · · · · ·
		•		•*					1.						

70	TM11.T RUN NAME	HND288,V22(22) 11 A/P PIN URDER NAME PIN	/06//3 BAY - Q D ORDER	RAW RV PG Y X	8-JUL-74 Z REMARKS LENGT	8151 PAGE 11 H EXCEPTIONS RUN NUMBER
•	A30H1 A30H1 A30H1	A2VH2 A3VH1	1-01 # 1-02 #	R1 R1	1-0/	94 94 8 94
•	A30J1 A30J1 A30J1	АЗОЈ I <b>А</b> 29Н I	1-01 *		3+0/	95 95 8 95
•	A3UL1 A3UL1 A3UL1	A1/N2 A3UL1		M11-11 M11-11	1 8-6/	96 96 8 96
•	A31A1 A31A1 A31A1	A31A1 A31C1	1-01 # 1-02 #		2-4/	97 97 8 97
0	A31E2 A31E2 A31E2	A31E2 B14R1	1-01 # 1-02 #		12-4/	98 98
SOF MENT	A31H2	A 3252 A 3251 A 31 H 2	1-01 # 1-02 # 1-03 #		1 2	99 99 99
\$ 100 mg	A31H2	A31P1 A31V1	i 1=01 # 1=02 #		6 <b>~</b> 0/	8 99 100
***************************************	A31P1 A31R1	A31N1	1=01 #		3=0/	101
Э	A31R1 A31R1 A31R1 A31R1	A31M1 A31R1 A31L1 A31J2	1-02 # 1-03 # 1-04 # 1-05 #		<b>2</b>	101 101 101 101
٥	A31k1 A32M1 A32M1	A32M1 H32H2	1-02 # T	M11-05 M11-05	10-6/	102 102
() ()	A32/41 A32M1 AC LO	H A25J1	1 1=01 # T	M11-05 M11-07	8-0/	103
	AC LO	H Btor2	i-02 * T	M11-25	11-0/	8 103 103
3						
9						
<i>o</i>						
9	en e					
•	TM11.T RUN NAME	HND288.V22(22) 11 A/P PIN ORDER NAME PIN		RAW RV PG Y X	8-JUL-74 Z REMARKS LENGT	8:51 PAGE 12 H EXCEPTIONS RUN NUMBER
<b>9</b>	ADRS BIT 16 ADRS BIT 16 ADRS BIT 16 ADRS BIT 16 ADRS BIT 16	H A2161 H B10R1 H B08H1 H B2/E1	1-01 # 1-02 # 1-03 # 1-04 #	RI RI RI I	25-0/	104 104 104 104 104
0	ADRS BIT 17 ADRS BIT 17 ADRS BIT 17 ADRS BIT 17	H A21N2 H 808D2 H B10P1 H B27D1	1=01 # 1=02 # 1=03 # 1=04 #	Ri Ri Ri		105 105 105 105
Ø -	ADRS BET 17  ADRS DEC MSYN  ADRS DEC MSYN  ADRS DEC MSYN	ն A09L2 ն B11V1		M11-21 M11-26	24-6/	106 106
6	ADRS TO BUS	H Atibi	T	M11-24		1-PIN RUN 107
ORATION	ADRS TO BUS ADRS TO BUS ADRS TO BUS ADRS TO BUS	L A11F1 L B1051 L H12U2	1-02 + T	H11-24 H11-25 H11-18	2 10-2/	108 108 108 108
	B1UK1 B1UK1 B1UK1 B1UK1	810J1 810K1 810U1	1=02 + 7	H11=25 H11=25 H11=14		109 109 109 109
4	B12V1 B12V1 B12V1	812VI 812VI	1-02 . T	M11-18 M11-18	1	110 110
9	B14J2 B14J2 B14J2 B14J2	824D2 82302 823R2	1-02 . T	M11=15 M11=15 M11=15	2*4/ 2	111
<b>(9</b>	B14J2 B14J2 B14J2	923K2 923K2 814J2	1=04 # T	M11-15 W11-15	16•0/	111
<i>*a1</i> <b>⊕</b>	B14K2 B14K2 B14K2 B14K2	83281 82912 82581 814K2	1-01 # 1-02 # 1-03 # 1-04 #		1	112 112 112 112
43	B14K2	r i kajala sendaja k Para sendaja			17•6/	
\$ &						
•						
٠						

TM11.T RUN NAME	HND288.V22(22 A/P PIN ORD NAME PI	ER BAY -	Q DRAW RV PG	Y X 2	H-JUL-74 REMARKS LENGTH	BI51 PAGE 13 Exceptions Run Number
B14M1 B14M1 B14M1 B14M1 B14M1	814M1 814M2 82UN1 819N1	1=01 * 1=02 * 1=03 * 1=04 * 1	R R 1	1 2 1	11-0/8	113 113 113 113 113
B14R2 B14R2 B14R2	B14R2 B19T2	1=01 # 1=02 #	R R		5=0/8	114 114 114
B14U2 B14U2 B14U2	A 32E2 B 14U2	1-01 # 1-02 #	TM11-04 TM11-04		13-2/8	115 115 118
B15C1 B15C1 B15C1	B15C1 A2352	1+01 # 1+02 #			7-2/8	116 116 116
B15K1 B15K1 B15K1	815K1 822A1	1=01 #	TM11-04 TM11-04	• • • • • • • • • • • • • • • • • • •	6-2/8	117 117 117
815K2 815K2 815K2	818R1 815K2	1-01 # 1-02 #	TM11-04 TM11-04	1	5-0/8	118 118 118
B15N1 B15N1 B15N1	A2881 B15N1	1-01 # 1-02 #	TM11-17 TM11-17	<b>,</b>	10-4/8	119 119 119
B16 <b>B1</b> B16B1 B16H1	81681 81781	1=01 # 1=02 #	TM11-05 TM11-05	•	2+6/8	120 120 120
B16K1 B16K1 B16K1	A17E2 916K1	1-01 1-02 #	TM11-04 TM11-04		6=0/8	121 121 121
817E1 B17E1 B17E1	817E1 818E2	1-01 # )-02 #	TN11-05 TH11-05	•	3=0/8	122 122 122
817J2 817J2 317J2	A06C1 B17J2	i=01 # i=02 #	TM11-09 TM11-09		9-6/8	123 123 123

	TM11.T RUN NAME			V\6 HI		2(22) 11 ORDER PIN	/06//3 - BAY - URDER	• (	D DR	AW RV	PG 1	x	Z	REMARKS	8-JUL-74 Length	8:51 EXCEPTIONS	PAGE 14 RUN NUMBE
	B17L1 B17L1 B17L1				B17LI B2GNI		1=01 1=02 1				R1 R1		1		7-0/8		124 124 124
	B17P2 B17P2 B17P2				A06D1 B17P2		1-01 1-02 1			11-09 11-09			1		9-4/8		125 125 125
	B1751 B1751 B1751				A06A1 B1/S1		1-01 1-02		TM	11-09 11-09			1		9=6/8		126 126 126
	B17V2 B.7V2 B17V2	· ·			A06F1 B17V2		1=01 1=02		TM	11-09 11-09			1		10-0/8		127 127 127
	B18E1 B18E1 B18E1			, in the second	AIGAI Bibei		1-01 1-02 1			11-15 11-15			1		6=0/9		128 128 128
1	B18H2 B16H2 B18H2				B18H2 B15E2		1-01 1-02 1				I I		1		4-0/8		129 129 129
4	B18R2 B18R2 B18R2				B18R2 B32L1		1=01 1=02			11-11			1		9-2/8		130 130 130
	B19C1 B19C1 B19C4			14 1 14 1 14 1	B2281 B19C1		1-01 1-02	*			R1 R1		. <b>1</b>	A survey was a second	4-4/8		131 131 131
	819F1 819F1 819F1				82081 819F1		1-01 1-02 1			474 J.C.	R1 R1	i dise. Ta	1		3-0/8		132 132 132
	B19F2 B19F2 B19F2				A25R2 B19F2		1-01 1-02						1		6-0/8		133 133 133
	B19K1 B19K1 B19K1				A 32D2 B19K1		1-01 1-02 1			11-04 11-04			j		10-6/8		134 134 134
	819K2 819K2 819K2				819J1 819K2		1=01 1=02			11-04 11-04			1		2-4/8		135 135 135
			-														

.

•":

	y v en				AND THE RESERVE OF THE PROPERTY OF THE PROPERT	
TM11.T RUN NAME	HND288,V22(22) 11 A/P PIN URDER NAME PIN	/06/73 BAY - Q ORDER	DRAW RV PG Y	X Z REMARKS	8-JUL-74 Length	8:51 PAGE 15 EXCEPTIONS RUN NUMBER
819N2 B19N2 B19N2 B19N2	NAME PIN B19J2 B19H2 B19N2	1=01 # 1=02 # 1=03 #	I R1 R1		5-4/8	136 136 136 136
& 81981 81981 81981	A0GM2 B1981	1-01 # 1-02 #	TM11-09 TM11-09	1	10-0/8	137 v
# 81982 81982 # 81982	A06R1 B1952	1-01 #	TM11-09 TM11-09		10-2/8	138 138 139
B20€1 ■ B20€1 B20€1	820E1 B19U2	1+01 + 1 1+02 +	i		4-0/8	139 139 139
⊕ B20P2 B20P2 B20P2	A28T2 B2UP2	1=01 # 1=02 #			7-4/8	140 140 140
# 192151 192151 192151 2020 B2151	A17V2 B2151	1-01 # 1-02 #	1 1		5 <b>+4/8</b>	141 141 141 141
B2152 B2152 B2152	B2182 B21U2	1=01 # 1=02 #	1		2=4/8	142 142 142
3 B21V2 B21V2 B21V2	B21V2 B26M2	1-01 # 1-02 #			5=0/8	143 143 143
B22U2 B22U2 B22U2 B22U2	B22U2 B14K1	1-01 # 1-02 #	i i		7+0/8	144 144 144
B22V2 ⊕ B22V2 B22V2	522V2 519E1	1-01 # 1-02 #			5=0/8	145 145 145
€9 B23J2 B23J2 B23J2	810H2 823J2	1-01 * 1-02 * 1	TN11-15 TN11-15		6=0/8	146 146 146
<b>*</b>						
<b>∂</b>						
<b>⊕</b>						
TM11.T RUN NAME	HNU284,V22(22) 11 A/P PIN ORDER NAME PIN	/06/73 BAY - Q ORDER	DRAW RV PG Y	X Z REMARKS	8-JUL-74 Length	8:51 PAGE 16 EXCEPTIONS RUN NUMBER
B23P2 B23P2 B23P2	B10N1 B23P2	1=01 #	TH11-15 TH11-15		6-0/8	13
B23V2	B16M2 B23V2	1-01 # 1-02 #	TH11-15 TH11-15		6-2/8	148 148 148
● 824J2 824J2 824J2	810R( 824J2	1-01 #	TM11-15 TM11-15		7-0/8	149 149 149
● B24P2 B24P2 B24P2	B16P2 B24P2	1-01 +	TM11-15 TM11-15		6-2/8	150 150 150
B24V2 ● B24V2 B24V2	B16VI B24V2	1-01 # 1-02 #	TM11-15 TM11-15		6=4/8	151 15(
● 28 B25J2 18 B25J2 58 B25J2	81682 825J2	1-01 # 1-02 #	TM11-15 TM11-15		7-2/8	152 152 152
825P2 B25P2 B25P2 B25P2	B16U2 B25P2	1-01 + 1-02 +	TH11=15 TH11=15		7-0/8	153 153 153
B26H1 ● B26H1 B26H1	826H1 81472	1-01 # 1-02 +			8-4/8	154 154 154
● B26N2 B26N2 B26N2	N2UF2 H2UN2	1=01 # 1=02 # 1			7-0/8	155 155 155
B26P1 B26P1 B26P1	B26P1 B31C1	1-01 + 1-02 +			5-4/8	156 156 156
B28K3 <b>⊕</b> B28K1 B28K1	B28K1 B28H1	1-01 * 1-02 *			2-4/8	157 157 157

1-01 \* 1-02 \*

B29C1

B29H2

158 158 158

3-0/8

B29C1

629C1 629C1

3

•	TM11.T RUN NAME		V\5	NAME 10 ND288.V2	2(22) 1 ORUER PIN	1/06//3 BAY = ORDER	Q	DRAW RV PG Y X	Z REMARKS	8-JUL-74 Length		PAGE 17 RUN NUMBER	
va va	829F1 829F1 829F1			A27M1 B29F1		1=01 1=02				5-0/8		159 159 159	
45	B29K1 B29K1 B29K1			A 30D 1 B29K i		1-01 1-02 1		TM11-06 TM11-06		6+0/8		160 160 160	
	B29K2 B29K2 B29K2 B <b>29K2</b>			829K2 82981 82981		1=01 ( 1=02 ( 1=03 (	¥		2 1	8-4/8		161 161 161 161	
•	B29N2			ADGE2 B29N2		1=01 1=02		TM11-09 TM11-09	•	15-4/8		162 162 162	1
•	B2951 B2981 B2981			82981 83181		1=01 1=02				4-4/8		163 163 163	
e e	B2952 B2952 B2952			A00J1 B2982		1=01 1=02 1		TM11-09 TM11-09	1	15=4/8		164 164 164	1
	B29V2			A29E2 B29V2		1-01 1-02		TM11-11 TM11-11		6-6/8		165 165 165	
•	B31M1 B31M1 B31M1			A2US2 B31H1		1-01 i 1-02 i	<b>*</b>	TH11-04 TH11-04		8-4/8		166 166 166	
Ð	B31P1 B31P1			83121 83101		1-01 1-02		TM11-05 TM11-05		2-6/8		167 167 167	. * . *
<b>*</b>	83122			83122 81701		1-01	<b>.</b>			10-0/8		168 168 168	
9	B31R2 B31R2 B31R2			831R2 81781		1-01 1-02 1				10-2/8		169 169 169	
<b>*</b>					<b>x</b> '								
9													
<b>9</b>													
Q													
•	TM11.T RUN NAME		W\B HW	ID288.V2: Pin Name	2(22) 11 URDER PIN	1/06/73 BAY = URDER	0	DRAW RV PG Y X	Z REMARKS	8-JUL-74 LENGTH	8:51 EXCEPTIONS	PAGE 18 KUN Numbek	
9	B31V1 B31V1 B31V1			A06U2 B31V1		1-01 ( 1-02 (		TM11-08 TM11-08		16-0/8		170 170 170	
0	B32C1 B32C1 B32C1			A10J2 B32C1		1-01 (	•			11-0/8		171 171 171	in the second se
<b>a</b>	B32F1 B32F1 B32F1			818L2 832F1		1-01 (				9-2/8		172 172 172	
9	B32K1 B32K1 U32K1 B32K1	٠		B16A1 B17C1 B32K1		1=01 ( 1=02 ( 1=03 (		TM11-05 TM11-05 TM11-05	2	13-2/8		173 173 173 173	
•	B32K2 B32K2 B32K2			A31S1 A31U1 B32K2		1-01 1-02 1-03	<b>)</b> 100	TM11-05 TM11-05 TM11-05	3 3			174 174 174	1
•	B32N1 20 B32N1			A 30R1 .B32N1		1-01 ( 1-02 (				7-0/8		174 175 175	
•	B32N1 B32S1 B32S1 B32S1			829H1 832S1		1-01 (		Tmi1-06 Tmi1-06		5-2/8 4-2/8		175 176 176 176	
	BG IN BG IN BG IN		H	A10E1 B07U2		1=01 1=02		TM11=22 TM11=02		7-2/8		177 177 177	
•	BG OUT		H	A10A1 B07V2		1-01 1-02		TM11-22 TM11-02		7=6/8		178 178 178	· •
•	BGL BGL		H H	A24S1 A08J2 B06V1		1-01 1-02 1-03	<b>#</b>	TM11-17 TM11-13 TM11-03	1 2		TERM HERE?	179 179 179	
9	BGL		i, i,	A24U1 B29U1		1-01 1-02		TM11-17 TM11-17	1	17-2/8		179 180 180	

.

•	TM11 RUN	.T Name				A/	יף	PIN	2(22) 11 ORDER	BAY	-	٥	DRAW	RV P	, G Y	x	z	REMARI		JUL=74 LENGTH	8151 EXCEPTIONS	
<b>.</b>	e c	+ NXM					11.7	NAME A23E2	PIN	0RDE			TM11=									NUMBE 181
	BGL	+ NXM + NXM	1			- t	ı	A25H1 B29N1		1=02	₩,		TM11-	07			1 2	*				181
	BGL	HXM +				H		815P1		1-04			TM11-							19-4/8		181
•		+ NXM			÷.	I		A20A1 A23F2	**************************************	1=01			TH11-				. 1			ş		182
•		+ NXM + NXM				١		nzorz		1	•		1011	• /					• ,	4-4/8		162
•	BOT BOT			••				A05F1 B04K2	Z 14	1-0:	₩.		TH11-	02			1 2		· ·		TERM HERE? Cable	183
	BOT			1.3			a y	BO3K2		1-03		C	TH11=	02						8-4/8	CABLE	183
•	BOT		٠			H		826E2 832L2		1-01					81 ·		1 2					184 184
•	BOT	1.5				H	1	B32E1 A05H1		1-03			· Website	` (	) 1   1	•	1 2					184
₩ N N N N N N N N N N N N N N N N N N N	BOT Bot			١.٠		H		B08E2		1+05 1+06					₹1. ₹1		1,		the test			184 184
DU-PW	BOT					ı		A 3UE 2		1-01					R 1					15-2/8	17	184
	BOT					i.		A30E1 -		1-02	#			. 1	ŘÍ		2			84, 1966. 1966. – 1966.		185
*	BOT					L	,	820F2		1-04	*		<u>,</u> *.							11-0/8		185 185
<i>o</i>	BR I				. :	H		A1UH2	X	1-01					81		. 1					186
·.	BR I BR I BR I	NT	٠.			H H	l:	A10K2 A28P2 B27B2		1-02 1-03				1	₹1 <b>₹1</b>		1				who eller	186 186 186
· .	UR I	NT								1			•		•					18-0/8		186
9	BR I				,	L		A28H2					TM11-							and the second s	1-PIN RUN	187
<b></b>	BR M	ASTER ASTER ASTER				i.	,	A10P2 A10R2 A10S2		1-01 1-02 1-03	*		TM11-	22			1					188 188 188
•		ASTER					, .				•.		1041			- 2				5-0/8		188
-	BR O	UT		,		Ĺ		A10P1 807J2		1-01			TM11-		,							189
9	BR O	UT					÷		 	1.										5-0/8		189
•			-									۲,										
<b>@</b>																		general series				
									•	. ne										en e		Services
•			*.*		1.5																	
•					•												71.5					
4																						
_							***			404 47	<u>-</u>										0.24	PAGE
	TM11 RUN		-			A/	<b>P</b>	D288.V2 Pin Name	2(22) II ORDER PIN	BAY - URDER		u	DRAW	RV P	¥	, х	Z	REMARK		JUL-74 LENGTH	8:51 EXCEPTIONS	RUN RUN NUMB
•	BTE					. н		A28R2		1-01					11		1					190
•	BTE BTE					H		A08R1		1-02			1		11		2		S. Jan	40.040		190
_	BTE BTE	e e e Su				L		A22K1		1-01				in desired			2			18-0/8		190
•	BTE					. [	, .	A2UH2 A2882		1-02	•				ti ti ::		î					191 191
9	BTE			٠.				·		1					•					9-6/8		191
•	BUS BUS	AUU				I.	• '	A12K2 A09H2 B02H2		1-01	#	_	TM11- TM11- TM11-	21	191		2				TERM HERE?	192 192 192
	BUS	AUQ			. *	į		B01H2		1-04			TM11-					m Aylanda		13-6/8	CABLE	192 192
•	BUS	AU1				ı .		A12J2		1-01	*		TM11-				2				TERM HERE?	193
• ,	BUS	AU1	-1			I I	,	B10M2 B02H1		1-02	*	C	TH11-	01			2				CABLE	193
P TY	BUS					ι	•	BOIHT	, C " "	1-04	# :	С	TM11-	<b>U</b> ]	7 42	14.5				15-4/8	CABLE	193 193
C	BUS BUS					1		A12LI B10K2		1=01 1=02		e V	TM11-:			viti s	2				TERM HERE?	194 194
- 10	BUS	AU2				į		B02J2		1-03	₩.	C C	THII-	01			2				CABLE	194
0	BUS BUS			1.50			•	B01J2		1-04	, <b>y</b>		Water.	41		. "	1. 1. 1. 1.		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	14-2/8	CHODO	194

1-01 \* TM11-18 i=02 \* TM11-25 t=03 \* C TM11-01 i=04 \* C TM11-01

1-01 \* TM11-18 1-02 \* TM11-21 1-03 \* C TM11-01 1-04 \* C TM11-01

TH11-18 TH11-21 TH11-01 TH11-01

1-01 \* 1-02 \* 1-03 \* C 1-04 \* C

A12K1 B10H2 B02J1 B01J1

A12VI A09U2 B02K2 B01K2

A1281 A09V1 B02K1

BOLKI

444

666

TERM HERET

TERM HEREY

TERM HERE?

CABLE CABLE

CABLE CABLE

CABLE CABLE

13-0/8

C

BUS AU3 BUS AU3 BUS AU3 BUS AU3

BUS AU4 BUS AU4 BUS AU4 BUS AU4 BUS AU4

BUS AUS BUS AUS BUS AUS BUS AUS

		AME				۸.	\/e <sup>''</sup>		2(22) 11 ORDER PIN	BAY = URDER	a	D	RAW RV	ÝG	y x	z	REMARKS		UL-74 LENGTH	8:51 EXCEPTIONS	PAGE 21 RUN NUMBER
	BUS A	មិច មិច មិត			2		<b>Ն</b> Ն Ն	A12R2 A09U1 B02L2 B01L2		1+01 1+02 1-03 1-04	* C	T	M11-18 M11-21 M11-01 M11-01			2 1 2				TERM HERE? Cable Cable	198 198 198 198
	BUS A	υ <b>7</b>					L,	A12P2		1=01 1=02			M11-18			2			13-4/8	TERM HERE?	198
	BUS AS BUS AS BUS AS	υ <b>7</b> υ <b>7</b>					i i i	809P2 802L1 801L1		1-03	# C	T	M11-01 M11-01		.,	2			13-4/8	CABLE CABLE	199 199 199 199
	BUS A	บย				· .	L G	A09N2 B12K1		1=01 1=02			M11-21 M11-18			2				TERM HERE?	200 200
	BUS AC	18 18					L	B02M2 B01M2		1-03 1-04	# C	T	M11-01 M11-01	7		2			15-2/8	CABLE	200 200 200
,	BUS A			.*			i. L	A09R1 B12E1		1-01 1-02		T	M11-21 M11-18			2				TERM HERE?	201 201
RPORATION	BUS AC	19					i. L	802M1		1-03			M11-01 M11-03			2	en e		15-0/8	CABLE CABLE	201 201 201
00 25	BUS A	LO					ti ti	A09P1 B12D1 B02N2		1-01 1-02 1-03	#	T	M11-21 M11-18 M11-01			2 1 2				TERM HERE?	202 202
	BUS A	ĮŪ.					ն Մ	B01N2		1-04			11-01		e ete Luc				15-0/8	CABLE	202 202 202
	BUS A: BUS A: BUS A:	11					ն Մ	A09L1 B12B1 B02N1		1=01 1=02 1=03	#	T	H11-21 H11-18 H11-01			2 1 2				TERM HERE?	203 203 203
	BUS A	l 1					i.	80141		1-04			M11-01						15-4/8	CABLE	203 203
	BUS AT BUS AT	12					և ն ն	A09C1 B12P1 B02P2		1-01 1-02 1-03	# `	T	M11-21 M11-18 M11-01			1 2			a.	TERM HERE?	204 204 204
	BUS A	12					և	80165	. 4	1-04	* C	T	M11-01						16-6/8	CABLE	204 204
	BUS A: BUS A:	13 13					<u>ن</u> ا ا	809K2 81261 802P1		1-01 1-02 1-03	* C	T(	M11-21 M11-18 M11-01			2 1 2				TERM HERE?	205 205 205
	BUS A						<b>.</b> 	80191		1-04	+ C	T	411-01						16-2/8	CABLE	205 205
									and the second	1000		٠.				5.3	· ·		,		
	TM14							1174BB US	2/223	406443											DACE 22
	TM11.					٨	HN HN		2(22) 11 URDER PIN	/0G/73 BAY - URDER	· u	<b>.</b> 01	RAM RV	PG		Z	REMARKS	8-4	UL⇒74 Length	B:51 EXCEPTIONS	PAGE 22 RUN Number
		14 14 14				^		PIN	ORDER	BAY -	* * * C	Ti Ti	MII-21 MII-21 MII-18 MII-01 MII-01			2 2 1 2	REMARKS	<b>8-4</b>			RUN
	BUS ASBUS AS	NME 14 14 14 14 15				<b>^</b>	\/P	P1N NAME A09K1 B12K2 B02R2 B01R2 A09D2 B12J2	ORDER	HAY - URDER 1-01 1-02 1-03 1-04 1	* * C	Ti Ti Ti	M11-21 M11-18 M11-01 M11-01 M11-21 M11-18			2 1 2	REMARKS	8-J	LENGTH	EXCEPTIONS TERM HERE? CABLE CABLE TERM HERE?	RUN NUMBER 206 206 206 206 206 207 207
	BUS ASBUS AS	14 14 14 14 14 15 15				٨	r r r	P1N NAME A09K1 B12K2 B02R2 B01R2	ORDER	HAY - URDER 1-01 1-02 1-03 1-04 1	* C	T( T) T( T)	M11-21 M11-18 M11-01 M11-01			2 1 2 2 1 2	REMARKS	8-di	LENGTH	EXCEPTIONS TERM HERE? CABLE CABLE	RUN NUMBER 206 206 206 206 206 206
	BUS ASBUS AS	14 14 14 14 15 15 15 15 16 10				<b>^</b>	//	P1N NAME A09K1 B12K2 B02R2 B01R2 A09D2 B12J2 B02R1	ORDER	HAY - URDER 1-01 1-02 1-03 1-04 1 1-01 1-02 1-03	0	T( T) T( T)	M11-21 M11-10 M11-01 M11-01 M11-21 M11-18			2 1 2 2 1 2 2 1 2 2	REMARKS	8-J	LENGTH	EXCEPTIONS TERM HERE? CABLE CABLE TERM HERE? CABLE	RUN NUMBER 206 206 206 206 206 207 207 207 207
TATION	BUS ASBUS ABUS A	NME 14 14 14 15 15 15 10 10 17 17				^	\/P	P1N NAME A09KI B12K2 B02R2 B01R2 A09D2 B12J2 B02R1 B01R1	ORDER	HAY - URDER 1-01 1-02 1-03 1-04 1 1-01 1-02 1-03 1-04 1 1-01 1-02 1-03 1-04 1 1-01 1-02 1-03	Q CC CC	T( T) T( T)	M11-21 M11-10 M11-01 M11-01 M11-21 M11-18	RI RI		2 2 1 2	REMARKS		16-0/8 17-0/8	EXCEPTIONS TERM HERE? CABLE CABLE TERM HERE? CABLE	RUN NUMBER 206 206 206 206 207 207 207 207 207 207 207 208 208 208
	BUS ASBUS AS	ME 14 14 14 15 15 15 16 17 17 17 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10				^	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PIN NAME  A09KI B12K2 B02R2 B02R2 B02R2 B02R1 B01R1  B1US2 B02S2 B01S2  B1UU2 B02S1	ORDER	HAY - URDER 1-01 1-02 1-03 1-04 1 1-01 1-03 1-04 1 1-01 1-03 1-04 1 1-01 1-03 1-04 1 1-01 1-03 1-04 1 1-01 1-03 1-04 1 1-01 1-03 1-04 1 1-01 1-03 1 1-01 1-02 1-03 1-03 1-03 1-03 1-03 1-03 1-03 1-03	Q CC CC CC CC CC	TITE	M11-21 M11-10 M11-01 M11-01 M11-21 M11-18	Ri Ri Ri Ri	タタの記載(Particle Andrews)、 Martin Control Con	2 2 1 2 2 1 2 2 1	REMARKS	8-J	16-0/8 17-0/8 9-0/8	EXCEPTIONS TERM HEREY CABLE TERM HERE? CABLE CABLE CABLE CABLE CABLE TERM HERE?	RUN NUMBER 206 206 206 206 206 207 207 207 207 207 207 208 208 208 208 208 208
THE SECTION OF THE SE	BUS ALBUS AL	14 14 14 14 15 15 15 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17				<b>∧</b>	//	P1N NAME  A09K1 B12K2 B02R2 B01R2  A09D2 B12J2 B02R1 B01R1  B1US2 B02S2 B01S2  B1UU2 B02S1 B01S1  B01F1 B02F1	ORDER	HAY - URDER  1-01 1-02 1-03 1-04 1 1-01 1-01 1-01 1-01 1-02 1-03 1 1-01 1-02 1-03 1	9 CC CC CC CC CC		H11-21 H11-01 H11-01 H11-21 H11-21 H11-01 H11-01 H11-01	Ri Ri Ri Ri		2 2 1 2 2 1 2 2 1	REMARKS		16-0/8 17-0/8 9-0/8 9-4/8	EXCEPTIONS TERM HEREY CABLE TERM HERE? CABLE CABLE CABLE CABLE CABLE TERM HERE?	RUN NUMBER 206 206 206 206 207 207 207 207 207 207 207 208 208 208 208 208 209 209 209 209 210 210
	BUS A.BUS A.	NME 14 14 14 14 15 15 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	N				//	PIN NAME  A09KI B12K2 B02R2 B02R2 B01R2  A09D2 B12J2 B02R1 B01R1  B1US2 B01S2 B01S2 B01S2 B01S2 B01S2 B01S2 B01S2 B01S1	ORDER	HAY - URDER 1-01 1-02 1-03 1-04 1 1-01 1-02 1-03 1 1-01 1-03 1 1-01 1-03 1 1-01 1-0	· · · · · · · · · · · · · · · · · · ·		M11-21 M11-01 M11-01 M11-23 M11-18 M11-01 M11-01 M11-01 M11-25 M11-01 M11-01	R1 R		2 2 1 2 2 1 2 2 1	REMARKS		16-0/8 17-0/8 9-0/8 9-4/8	EXCEPTIONS TERM HERE? CABLE TERM HERE? CABLE	RUN NUMBER 206 206 206 206 206 207 207 207 207 207 207 208 208 208 208 209 209 209 210 210 210 211 211 211
	BUS A.BUS A.	ME 14 14 14 15 15 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	N N OUT				// 6566 6666 666 666 666 H	PIN NAME  A09KI B12K2 B02R2 B02R2 B01R2  A09D2 B12J2 B02R1 B01R1  B1US2 B01S2 B01S2 B01S2 B01S2 B01S2 B01S2 B01S2 B01S1 B01F1 B02F1 B10P2 A01P2 A10D1	ORDER	HAY - URDER  1-01 1-02 1-03 1-04 1-01 1-01 1-01 1-02 1-03 1-04 1-01 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-01 1-02 1-03 1-01 1-01 1-02 1-03 1-01 1-01 1-01 1-01 1-01 1-01 1-01	· · · · · · · · · · · · · · · · · · ·		M11-21 M11-01 M11-21 M11-21 M11-01 M11-01 M11-01 M11-01 M11-25 M11-01 M11-23	Ri R		2 2 1 2 2 1 1 2 1	REMARKS		16-0/8 17-0/8 9-0/8 9-4/8	EXCEPTIONS TERM HERE? CABLE TERM HERE? CABLE	RUN NUMBER 206 206 206 206 207 207 207 207 207 207 208 208 208 208 209 209 210 210 210 211 211 211 211 211
Distriction of the last of the	BUS A. BUS BUS A. BUS	ME 14 14 15 15 16 16 16 17 7 7 17 17 17 17 17 17 17 17 17 17 17	IN IN OUT OUT IN IN				// 6566 6565 656 656 656 666 HH A	PIN NAME  A09KI B12K2 B02R2 B02R2 B01R2  A09D2 B12J2 B02R1 B01R1  B1US2 B01S2 B01S2  B1US2 B01S2  A09D2 B01S2  B1US2 B01S2	ORDER	BAY - URDER  1-01 1-02 1-03 1-04 1-01 1-01 1-02 1-03 1-04 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-02 1-03 1-01 1-01 1-02 1-03 1-01 1-01 1-02 1-03 1-01 1-01 1-02 1-03	· · · · · · · · · · · · · · · · · · ·	TTT	M11-21 M11-01 M11-24 M11-19 M11-01 M11-01 M11-01 M11-01 M11-01 M11-01 M11-01 M11-01 M11-01	R1 R	多多的复数 Manager Company	2 2 1 2 1 2 1 1 1	REMARKS		10-0/8 17-0/8 9-0/8 9-4/8 9-4/8	EXCEPTIONS TERM HERE? CABLE TERM HERE? CABLE CABLE CABLE CABLE CABLE TERM HERE? CABLE TERM HERE?	RUN NUMBER 206 206 206 206 207 207 207 207 207 207 207 208 208 208 208 209 209 209 210 210 211 211 211 211 211 211 211 211

•

BUS BG 6 IN	6-2/8		216 216
BUS BG G OUT BUS BG G OUT  BUS BG G OUT  BUS BG 7 IN B	. ,		216
BUS HG 7 IN H H07K2 1-02 + TM11-02 BUS HG 7 IN 1	5-6/8	CABLE TERM HEREY	217
	6-2/8	CABLE TERM HERE?	218 218 218
BUS BG 7 OUT H B07L2 1-02 6 TM11-02	5-6/8	CABLE TERM HERE?	219 219 219
BUS BR 4 L B01D2 I=01 + C TM11=01 2  BUS BR 4 L B02D2 I=02 + C TM11=01 1  BUS BR 4 L B07H2 I=03 + TM11=02  BUS BR 4 I	7=6/8	CABLE Cable Term Her <b>e7</b>	220 220 220 220 220
BUS BR 5 L B01C1	8+2/8	CABLE Cable Tepm Here?	221 221 221 221
BUS BR 0	8-2/8	CABLE CABLE TERM HERE?	222 222 222 222 222
BUS BR 7 L A01T2 1=01 + C TM11=01 2  BUS BR 7 L A02T2 1=02 + C TM11=01 1  BUS BR 7 L B0/02 1=03 * TM11=02  BUS BR 7	8-2/8	CABLE Cable Term Here?	223 223 223 223 223
BUS CO L A11K2 1-01 + TM11-24 2 BUS CO L A09J2 1-02 + TM11-21 1 BUS CO L B02U2 1-03 + C TM11-01 2		TERM HERE?	224 224 224
BUS CO L BO1U2 1-04 + C TM11-01 BUS CO 1	13-6/8	CABLE	224 224
BUS C1	13-6/8	TERM HERE? CABLE CABLE	225 225 225 225 225 225
THII.T HND288.V27(22) 11/06//3 RUN NAME A/P PIN URDER BAY - Q DRAW RY PG Y X Z REMARKS NAME PIN URDER	JUL-74 Length	8:51 EXCEPTIONS	PAGE 24 RUN NUMBER
BUS DUO	14-0/8	CABLE CABLE TERM HEREY	226 226 226
BUS DU1 L A01D2 1-01 C TN11-01 2 BUS DU1 L A02D2 1-02 C TN15-01 1 BUS DU1 L A07S2 1-03 C TH11-12 2 BUS DU1 L B09S2 1-04 C TN11-12		CABLE CABLE TERM HERE?	227 227 227 227 227
BUS DU1 1  BUS DU2	13-4/8	CABLE CABLE	227 228 228
BUS DU2 L AU7P2 1-03 + TM11-12 2 BUS DU2 L ALUE2 1-04 + TM11-22 1 BUS DU2 L BU9P2 1-05 + TM11-12  BUS DU2 L BU9P2 1-05 + TM11-12  BUS DU2	18*6/8	TERM HERE?	228 228 228 228
BUS DU3		CABLE CABLE	229 229 229 229
● 28 BUS DU3 L 809H2 1 ← 05 ● TM11 ← 12 BUS DU3 L A01E1 1 ← 01 ← C TM11 ← 01 2	17-2/8	TERM HERET	229 229 230
BUS DU4	17-2/8	CABLE TERM HERET	230 230 230 230 230
BUS DU5 L A01F2 1-01 * C TM11-01 2 BUS D05 L A02F2 1-02 * C TM11-01 1 BUS D05 L A07H2 1-03 * TM11-12 2 BUS D05 L A10F1 1+04 * TM11-22 1		CABLE CABLE	231 231 231 231 231
BUS DUS	16-6/8	TERM HERE?	231
BUS DOG L A01F1 1=01 * C TM11=01 2 BUS DOG L A02F1 1=02 * C TM11=01 1 BUS DOG L A07F2 1=03 * TM11=12 2 BUS DOG L A10F2 1=04 * TM11=22 1 BUS DOG L B09E2 1=05 * TM11=12 BUS DOG	17-0/8	CABLE CABLE TERM HERE?	232 232 232 232 232 232 232

٦

		L	AOTHI		-01 +	C	TM11=01	2				
BUS DOB BUS DOB BUS DOB BUS DOB			A02H1 A07R1 A10K1 B09V1		-02 # -03 # -04 # ~05 #	C	TH11-13	2			CABLE CABLE TERM HERE?	234 234 234 234 234
BUS DUS BUS DUS BUS DUS BUS DUS		<b>6</b> 6 6	A01J2 A02J2 A07N1	1	-01 # -02 # -03 #	c c	TM11-01 TM11-01 TM11-13	2 1 2		18-4/8	CABLE CABLE	234 235 235 235
BUS DO9 BUS DO9 BUS D10 BUS D10		i L L	809R1 A01J1 A02J1		-04 # -01 # -02 #	C C	TM11-13 TM11-01 TM11-01	2		13-2/8	TERM HERE?  CABLE CABLE	235 235 236 236
BUS DIO BUS DIO		L L	A071.1 B09N1	1	-03 # -04 #		TM11-13 TM11-13	2		13-4/8	TERM HERE?	236 236 236
BUS 011 BUS 011 BUS 011 BUS 011 BUS 011		ն ն ն	A01K2 A02K2 A07J1 B09L1	1	-01 # -02 # -03 # -04 #	C C	TM11-01 TM11-01 TM11-13 TM11-13	2 1 2		13-2/8	CABLE CABLE TERM HERE?	237 237 237 237 237
BUS 012 BUS 012 BUS 012 BUS 012		ն ն ն	A01K1 A02K1 A07F1 B09J1	1	-01 # -02 # -03 # -04 #	C C	TM11-01 TM11-01 TM11-13 TM11-13	2 1 2			CABLE Cable Term Here?	238 238 238 238
BUS 012 BUS 013 BUS 013 BUS 013		ն ն ն	A0112 A0212 A0701	1	-01 # -02 # -03 #	c c	TM11-01 TM11-01 TM11-13	2 1 2		13-6/8	CARLE CABLE	239 239 239 239
BUS D13 BUS D13		<b>L</b>	80 <b>9F1</b>		<b>→04 #</b>		TH11-13			13-4/8	TERM HERE?	239 239
								1.00	, ,			
TM11.T Run name		HA	PIN I		AY -		DRAW RV PO	Z REM	in a second	8-JUL-74 Length	8:51 Exceptions	RUN
BUS D14 BUS D14 BUS D14 BUS D14 BUS D14				ORDER BA	AY - RDER -01 # -02 # -03 # -04 #	o C C	DRAW RV PC TM11=01 TM11=01 TM11=13 TM11=13	Z REM	IARKS	LENGTH		RUN NUMBI 240 240 240 240
BUS D14 BUS D14 BUS D14		۸/۲ ن ن	AU1LI AU2LI AU/C1	ORDER BA	AY - RDER -01 # -02 # -03 #	CCC	TH11-01 TH11-01 TH11-13	Z REM 2 1 2 1 2	ARKS	LENGTH	CABLE CABLE	RUN NUMB 240 240 240
BUS 014 BUS 014 BUS 014 BUS 014 BUS 014 BUS 015 BUS 015		A/V	A01LI A02LI A07CI B09DI A01M2 A02M2 A07AI	ORDER BARTON OF THE PROPERTY O	AY - RDER -01 # -02 # -03 # -04 # -01 # -02 # -03 # -04 #	CC CC C	TM11-01 TM11-01 TM11-13 TM11-13 TM11-01 TM11-01 TM11-01	2 1 2	IARKS	13-4/8 13-4/8	CABLE CABLE TERM HERE? CABLE CABLE	RUN NUMBI 240 240 240 241 241 241 241 242 242
BUS D14 BUS D14 BUS D14 BUS D14 BUS D15		A/P  0 0 0 0 0 0	A0161 A0261 A0761 B09D1 A0182 A0282 A0781 B09A1 B01F2 B02F2 A0181 A0281 B1061	ORDER B	AY - RDER	00 00 00	TM11-01 TM11-01 TM11-13 TM11-13 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01	2 1 2	IARKS	13-4/8 13-4/8 2-6/8	EXCEPTIONS  CABLE CABLE  TERM HERE?  CABLE  TERM HERE?  CABLE  CABLE  CABLE  CABLE  CABLE  TERM HERE?	240 240 240 240 240 241 241 241 241 241 242 242 242 243 243
BUS D14 BUS D14 BUS D14 BUS D14 BUS D15 BUS D1		6	A01L1 A02L1 A07C1 B09D1 A01M2 A02M2 A07A1 B09A1 B01F2 B02F2	ORDER B	AY - RDER -01 #-02 #-03 #-04 #-02 #-03 #-04 #-02 #-02 #-03 #-01 #-02 #-03 #-04 #-02 #-03 #-03 #-03 #-03 #-03 #-03 #-03 #-03	CC	TM11-01 TM11-01 TM11-13 TM11-13 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01	2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IARKS	13-4/8 13-4/8 2-6/8 10=2/8	CABLE CABLE TERM HERE?  CABLE TERM HERE?  CABLE CABLE CABLE CABLE CABLE CABLE CABLE CABLE TERM HERE?	RUN NUMBI 240 240 240 241 241 241 241 242 242 242 243 243 243 243 244 244 244
RUN NAME  BUS D14  BUS D14  BUS D14  BUS D15  BUS D15  BUS D15  BUS D15  BUS D15  BUS DC LO  BUS INIT  BUS INIT  BUS INTR  BUS MSYN	A/P  6	PIN NAME  A01L! A02L! A07C! B09D!  A01M2 A02M2 A07A! B09A!  B01F2 B02F2  A01A! A02A! B1UC!  A01B! A02B! A1UM!  A11E! A09E! B02Y!	ORDER B	AY - RDER -01 #-02 #-03 #-04 #-02 #-02 #-02 #-02 #-02 #-02 #-02 #-02	CC CC CC	TM11-01 TM11-01 TM11-03 TM11-03 TM11-03 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-01 TM11-02 TM11-02 TM11-01	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ARKS  AND	13-4/8 13-4/8 2-6/8 10-2/8	EXCEPTIONS  CABLE CABLE  TERM HERE?  CABLE CABLE CABLE CABLE CABLE CABLE CABLE CABLE TERM HERE?  CABLE TERM HERE?  CABLE	RUN NUMBI 240 240 240 241 241 241 241 242 242 242 243 243 243 244 244 245 245 245	
RUN NAME BUS D14 BUS D14 BUS D14 BUS D15 BUS D15 BUS D15 BUS D15 BUS D15 BUS DC LO BUS NATR BUS INTR BUS INTR BUS INTR BUS INTR BUS MSYN BUS MSYN BUS MSYN BUS MSYN BUS MSYN BUS NPG II	N N	A/P  6	PIN NAME  A01LI A02LI A07CI B09DI  A01M2 A02M2 A07AI B09AI  B01F2 B02F2  A01AI A02AI B1UCI  A01BI A02BI A1UMI	ORDER B	AY - RDER - 01 # - 02 # - 03 # - 04 # - 01 # - 02 # - 02 #	CC CC CC	TM11-01 TM11-01 TM11-13 TM11-01	2 1 2 2 1 1 2 2 1	ARKS  A CONTROL OF THE CONTROL OF TH	13-4/8 13-4/8 2-6/8 10=2/8 9-4/8	EXCEPTIONS  CABLE CABLE  TERM HERE?  CABLE CABLE CABLE CABLE CABLE CABLE TERM HERE?  CABLE	NUMBI 240 240 240 241 241 241 241 242 242 243 243 243 243 244 244 245 245 245 245 246
RUN NAME  BUS D14  BUS D14  BUS D14  BUS D15  BUS D15  BUS D15  BUS D15  BUS D15  BUS DC LO  BUS DC LO  BUS DC LO  BUS DC LO  BUS INIT  BUS INIT  BUS INIT  BUS INTR  BUS MSYN	N N N UT	A/P 6	PIN NAME  A01L! A02L! A07C! B09D!  A01M2 A02M2 A07A! B09A!  B01F2 B02F2  A01A! A02A! B1UC!  A01B! A02B! A10M!  A11E! A09E! B02V! B01V!	ORDER B	AY - RDER - 01 # - 02 # - 03 # - 04 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 # - 02 # - 01 #	C C C C C C C C C C C C C C C C C C C	TM11-01 TM11-01 TM11-03 TM11-03 TM11-03 TM11-01	2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2	ARKS  A CONTROL OF THE CONTROL OF TH	13-4/8 13-4/8 2-6/8 10=2/8	EXCEPTIONS  CABLE CABLE  TERM HERE?  CABLE CABLE CABLE CABLE CABLE CABLE TERM HERE?  CABLE	RUN NUMBI 240 240 240 241 241 241 241 242 242 242 243 243 243 243 243 245 245 245 245 245 245 245 245 245 245

Q DRAW RV PG Y - X

TM11=01 TM11=01 TM11=22 TM11=12 TM11=12

Z

REMARKS

8-JUL-74 Length

16-4/8

8151

CABLE CABLE

**EXCEPTIONS** 

TERM HERE?

RUN NUMBER

233 233 233

233 233

HND288.V22(22) 11/06/73 P PIN ORDER BAY -NAME PIN URDER

A0142 A02H2 A10H1 A07V1 B09C1

1=01 # 1=02 # 1=03 # 1=04 # 1=05 #

C

TM11.T RUN NAME

BUS DU7 BUS DU7 BUS DU7 BUS DU7 BUS DU7 BUS DU7

	TM11.T RUN NAME		ND288,V2 PIN NAME	ORDER	BAY - ORDER	۵	DRAW RV	PG Y	x	Z	REMARKS	8-JUL-74 Length	8:51 EXCEPTIONS	PAGE 27 RUN Number
	BUS PA BUS PA BUS PA	L	AUIMI AUZNI		1=01 # 1=02 #	C C	TM11-01 TM1*-01			1		2-6/8	CABLE	249 249 249
2	BUS P6 BUS P8 BUS P8	i i	A01 N2 A02N2		1=01 # 1=02 # 1	C	TM11-01 TM11-01			1		2-6/8	CABLE	250 250 250
	BUS SACK BUS SACK	ն ն	A01R2 A02R2		1=01 *	C	TM11-01 TM11-01			2	*		CABLE CABLE	251 251
	BUS SACK BUS SACK	ŭ	A1UT2		1=03 #		TM11-22	. 4.4		•		9-2/8	TERM HERE?	251 251
	BUS SSYN	. <b>L</b> L	409J1 810E2		1-01 #		TM11-21 TM11-25		w	2			TERM HERE?	252 252
	BUS SSYN	ն L	B0201 B0101		1=03 #		TM11-01 TM11-01			2			CABLE CABLE	252 252
	BUS SSYN		*		1							15=0/8		252
	CARRY OUT 2	i,	A2462 A24K2		1-01 B		TH11-17 TH11-06			2				253 253
	CARRY OUT 2	ı	81282		1 -03 #		TM11-19					12-2/8	e Hangari dan Jabar Jab	253 253
	CARRY OUT 3 CARRY OUT 3 CARRY OUT 3	H	A23P1 A21H2		1-01 #		TM11-20			1				254 254
ı												3=4/8		254
	CARRY OUT 3 CARRY OUT 3 CARRY OUT 3	i.	A24N1 B12P2		1=01 #		TM11-18			1				255 255
												9-0/8		255
	CHAN U CHAN U CHAN U	H H H	A05L2 A13R1 B23E2	1. · · · · · · · · · · · · · · · · · · ·	1=01 # 1=02 # 1=03 #			R) . R1 R1	. · · · .	2				256 256
	CHAN U	H	824L2 82751	11.	1=05 # 1=04 - i			RI I		1				256 256 256
	CHAN U			$x = x^*$	1				a		Add State	21-4/8		256
	CHAN 1	н	A05P1		1-01 #		1.00	RI		2				257
	CHAN 1 CHAN 1 CHAN 1	H H	81 1M2 823L2 82452		1-02 # 1-03 # 1-04 #			R1 R1 R1		1 2 1				257 257 257
	CHAN 1	н	827R1		1=05 #			I.				22-2/8		257 257

	II.T V name	۸/P	HND288,V2: PIN NAME	ORDER Order Pin	BAY -	۵	DRAW	RV	PG	¥	x .	Z REMARKS	8-JUL-74 Length	8151 EXCEPTIONS	PAGE 28 RUN NUMBER
						9. jez	200				*7 .				
CHA	AN 2	H '	A05N2		1-01	•	\$ 9'40.		R1			2			258
CHA	AN 2	н	AIBMI		1-02	•			R1		· 1	•			258
CHA	AN 2	н	825E2	**	1-03		11.		R1			2		0	258
CHA	AN 2	H	62352		1-04				R1		-	7	* 11.		256
CH/	NN 2	H	1127P1		1-05			-	1				all the second second		258
	AN 2	77			. #		and was	ومميصور	•	0.3	i si u	e med the first first section of	23-6/8	Service Services	258
<b>_</b>	•		1					e 194				나는 사람들은 사람들이 되었다.	23-0/0		\$30
CHA	AN 3	н	A0581		1-01				R1						250
	AN 3	н	A13J2	A	1=02		er e i de la	وم أمانية						Contract of the	259
	AN 3	H	624E2				1000		R1		3	1			259
	AN 3			100	1=03		100		R1			2		10 Sec. 177, 5	259
			82562		1-04				RI			1	and the second second		259
	AN 3	H	B27N1	1.	1-05	•	1,000		Ţ						259
CHI	AN 3			175 P	1	40		X 2.	in a single Charles				22-2/8		259
			150	fig. in		100			1 1 3						
	AN 4	Н	A05R2		1-01		1.7		R1		- :	2			260
	AN 4	н	A 1 3 J I		1-02				R1			1		· · · · · · · · · · · · · · · · · · ·	260
	AN 4	н	B2461		1=03	H			R1			2			260
	AN 4	H.	B27M1	31 PM 13	1-04	<b>)</b>		1	1	,1.1	11 11 1				260
CH	AN 4		North Control		1, 1	S. 35, 76	* *			45.5	100		19-2/8		260
	Committee of the Committee of				*		er of the second		: "A.						
CH	AN 5	Н	AU'5U1		1-01	•	. agri vedi.		R1		2	2		in the second of	261
CHA	AN 5	Н	A13E2		1-02				R1						261
	AN 5	H	B2481	1.	1-03		1.54		R1		9	5			261
	AN 5	н	B27L1	121.00	1-04		1-14-51	4.55	ï	*.		Fig. 69-50 Sept. 1989	State of the state of	ere de Serve	261
	AN 5	•	~~~					4.	. •	4.	47 11 11	ft bligstig var ein	20-6/8	5.5 Sec. 10.5	261
				54°	W. John			,	100	1			40-0/0		401
CH	AN O	н	A05T2	· 1.7 (14)	1=01		A. 184.		R1	٠.,					262
	AN D	H	ALBEI		1-02		100								
	AN D		825H2						R1		1				262
	AN O	H		· .	1-03				R1			4		and the second second	262
		H	827K1		1-04		1 A 1	in i	I		17	Project Services			263
CHI	AN b	1						Sec. 1					19-4/8		262
				in and	and the second	14 . The .		(35°)		٠, ٧, .		elektrik filologia		Bar Quar Alba Alba	er jega jiku
	AN 7	H	.A05V2		1-01			- 1	R1		. 2	2			263
	AN 7	Н	A1361		1-02				R1		1	1			263
	AH 7	H	82'1N2		1-03 +				R1		2	2			263
	AN 7	H	B27J1		1-04	•		1.	I			"这一个一块老儿,美。			263
CHI	AN 7	J. 25.			1	4.5	- 1. P			٠.	1.33		20-4/8		263
				2.5					1.5						
CHA	AN P	H	AUGHI		1-01	,			R1		1				264
CHA	AN P	. 8	B1 4R1		1-02		1.	٠.	RI		. 2	2			264
	AN P	Н	B17H1		1-03				RI		1	i			264
	AN P	H:	82781		1-04				ï		•		医多性 经帐间 化	146 C. C. C. C. C.	264
	AN P				• • • • • • • • • • • • • • • • • • • •				- <b>1</b> y :			医结膜 电流型 医多点性神经	19=0/8		264
					ti 📆 kulus			- 1					12-0/0		
			* *** ** **				. 16				20 May 2			en e	5 6 1 A
					1.0										

្វ

1 -

TM11.T Run name	AV6 HV	D288.V22 PIN NAME	(22) 11 URDER PIN	/06/73 BAY = ORDER	Q	DRAV	RV P	g Y	X :	Z RE	EMARKS	8-0	UL=74 LENGTH	8151 EXCEPTIONS	PAGE 29 Run Number	
CHG TU ENB CHG TU ENB CHG TU ENB CHG TU ENB	6 6 6	A17K1 A25N2 B32P1		1=01 1=02 1=03	₩.					<b>,</b>			13-6/8		265 265 265 265	
CANET CINIT CINIT CINIT		A03P2 A04P2 B30V2		1+01 1+02 1+03	# C	TML	-02			}			19=6/8	CABLE CABLE TERM HERE?	266 266 266 266	
CLK 2 CLK 2	H	A12C1 A29F1		1-01 1-02	•	TM11							11-2/8		267 267 267	
CLK UNIT SEL CLK UNIT SEL CLK UNIT SEL CLK UNIT SEL CLK UNIT SEL CLK UNIT SEL	6 6 6	A1881 A1802 A1881 A2381 B31L2		1=01 1=02 1=03 1=04 1=05	# # #					2 1 2			18-4/8		268 268 268 268 268 268	
CLR DATA RO	H L	ALIMI ALINI				THI:	-24							1-PIN RUN	269 270	
CMA BIT OO CMA BIT OO CMA BIT OO	H H	A19F1 B22J2		1-01		THE!	<b>-25</b>						6-0/8		271 271 271 271	
CMA BIT OU CMA BIT OU CMA BIT OU CMA BIT OU CMA BIT OU CMA BIT OU	6 6 6 6	A19M1 A25P2 A22J2 B22F2 B22K2		1-01 1-02 1-03 1-04 1-05	#- ;. #:::	THE S THE S THE S THE S	+15 +15 +25						17-2/8		272 273 273 272 272 272 272	
CORE DUMP CORE DUMP CORE DUMP CORE DUMP CORE DUMP	H H H	A27T2 A2GH2 A2GU2 B1GL2		1-01 1+02 1-03 1-04	<b>*</b>	THE THE THE	-15 -08			2			14-2/8		273 273 273 273 273 273	

•	TM11.T RUN NAME		ND288.V2 PIN NAME	2(22) 11 ORDER PIN	/06/73 BAY - ORDER	0	DRAW RY	PG Y	X	Z REMARKS	8-JUL-74 Length	8151 EXCEPTIONS	PAGE 30 RUN NUMBER
	CORE DUMP		A1701 B16K2		1-01		TM11-08			1			274 274
	CORE DUMP	. L	B19D1 A25P1	and the second s	1-03 4		THI 1-07	****				i se sala s	274 274
_	CORE DUMP	រី រ	B29M2		1-05 #		TH11-09			í			274
9	CORE DUMP	b	B29R2		1-06	*	TM11-09				22-6/8		274 276
•	CRCE	9	A23V1		1-01 4		TH11-17		,	esta ja esta ja ja jarotu. Pita ja esta ja		TERM HERE?	275
	CRCE CRCE	+1	80482 80382		1-02 *		TM11-02			2		CABLE Cable	275 275
•	CRCE										15-4/B		275
**	CRCE CRCE	H	A2UN1	420H1	1-01 4								276 276
•	CRCE	H	A2301		1-03		TM11-17						276
•	CRCE		in a feet of the			* .	g grade digital				6-6/8		276
- 7	CRCS CRCS		AUSA1 BU4E2		1-01		TM11-08			1		TERM HERE? CABLE	277 277
	CRCS CRCS		B03E2		1=03 4	C	TM11-02				8-4/8	CABLE	271 277
000 000 000 000 000 000	CRCS	н	AOSBI	Geografia	1-01-4	e.t	TM11-08				والعربينة الوراسيج لأريم	* 1987 B	278
	CRCS CRCS	H	B15P2		1-02 4		ge aver 2	R1			9-2/8		278 278
9	CRCS + LRCS	H	B2601		1-01 #		· /	ī					279
•	CRCS + LRCS	H	BIVET	3. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1=02 +	) 1.47等。		.1			7-2/8		279 279
_	CRCS + LRCS	L	B26V4		1-01								280
•	CRCS + LRCS CRCS + LRCS	Ļ	81731	atta wan e meninga Kanangan	1-02	•	ik alberta jih. Perajah interde	i		2	We have the Soliday bearings.		280 280
_	CRCS + LRCS	L	81582 A2UD I		1-03 4			ī		3			280
0	CRCS + LRCS CRCS + LRCS	Ů.	V55V1		1-05			14	S. S.		22-0/8		280 280
•	CRE	Н	A28C1		1-01		Carrings.	Ri					281
	CRE CRE	. H.	A08E2		1-02			R1 R1		2	e de la companya de l		281 281
•	CRE										17#6/8		281
_	CRE		417C1		1-01		T#11-17	ung district Grant S					282
	CRE CRE	L	A28H1		1+02 *		TM11-17				8-0/8		282 282

RUN NAME	A/P	NVMF.	ORDER Pin	BAY . URDER	Q	DRAW RV	PG Y	<b>X</b>	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBE
CU READY CU READY CU READY CU READY	# # #	A18V2 B08A1 B0GD2		1-01 + 1-02 + 1-03 + 1	C -	TM11=06 TM11=03 TM11=12	,		1 2		11-2/8	TERM HERE? Cable Term Here?	283 283 283 283
CU READY CU READY CU READY CU READY	)	A18VI B18M2 B22D2		1-01 +			R1 R1 R1		2 1		9-0/8		284 284 284 284
CUR DEL CUR DEL CUR DEL CUR DEL CUR DEL	H H H	A18P2 B21L2 A29N1 A2GE2	A2GE2	1-01 # 1-02 # 1-03 # 1-04 #			R1 R1 I		1 2		15=6/8		285 285 285 285 285 285
CUR DEL CUR DEL CUR DEL CUR DEL	L L	A18R2 A2/E1 B29J1		1-01 # 1-02 # 1-03 #		TM11-06 TM11-16 TM11-06			1 2		13-0/8		286 286 286 286
D BIT OU D BIT OU D BIT OU D BIT OU	ն Ե Ե	A12E1 A13S1 A07P1 B08S1		1-01 # 1-02 # 1-03 # 1-04 #		TM11-12 TM11-14 TM11-12 TM11-18			2 1 2		14-6/8		287 287 287 287 287
D BIT 01	ն Ն <b>Ն</b>	A13N2 A12J1 A07V2 B08N2		1-01 # 1-02 # 1-03 # 1-01 #		TH11-14 TH11-18 TH11-12 TH11-12			2 1 2		13-0/8		288 288 288 288 288
D 81T 02	ն Ն <b>Ն</b>	A12L2 A13NI A07UI BUBNI		1-01 # 1-02 # 1-03 # 1-04 #	•	TH11-18 TH11-14 TH11-12 TH11-12			1 2 1		13-2/8		289 289 289 289 289
D BIT U3	ն ն	A13K2 A12H2 A0/N2 B08K2		1-01 # 1-02 # 1-03 # 1-04 #		TH11-14 TH11-18 TH11-12 TH11-12			2 1 2		<b>‡3-</b> 0/8		290 290 290 290 290

PAGE 3:

	•										
•	•		4.								
	<b>3</b>	TM11.T RUN NAME		A/P PI	288. V22(22) 11 In Order Ime Pin	/06/73 BAY - URDER	Q DRAW RV	PG Y X Z	8- Remarks	JUL-74 8:51 LENGTH EXCEPTIONS	PAGE 32 RUN NUMBER
	•	D BIT 04 D BIT 04 D HIT 04 D BIT 04 D HIT 04		L A	107K1 113K1 312R2 308K1	1-01 4 1-02 4 1-03 4 1-04 4	TN11-12 TN11-14 TN11-18 TH11-12			16-0/8	291 291 291 291 291
	•	D BIT 05 D BIT 05 D BIT 05 D BIT 05 D BIT 05		L A	113F2 112R1 107J2 308F2	1-01 + 1-02 + 1-03 - 1-04 +	TH11-14 TH11-18 TH11-12 TH11-12	1		13-6/8	292 392 292 292 292
	***	D BIT 06 D BIT 06 D BIT 06 D BIT 06		L A	A1282 A13F1 A07D2 308F1	1=01 & 1=02 & 1=03 & 1=04 & 1	TM11-18 TM11-14 TM11-12 TM11-12	1		14-4/8	293 293 293 293 293
		D BIT 07 D BIT 07 D BIT 07 D BIT 07		L A C A L A	A13C1 A12P! A078! 30BC!	1-01 #	TM11-14 TM11-18 TM11-12 TM11-12	2 1 2		12-4/8	294 294 294 294 294
	•	D BIT UB		6 A	NO7T2 NO8S1 312N2 313S1	1-01 4 1-02 4 1-03 4 1-04 4	TM11-13 TM11-13 TM11-19 TM11-14			11-0/8	295 295 295 295 295
.*	•	D 817 08 0 08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IN In		12381 314P1	1-01 0	7H11-25 TH11-14			9-2/8	196 296 296
	•	D SIT 04 PO TIB C PO TIB C PO TIB C			A07R2 A08N2 312C1 313N2	1-01 * 1-02 * 1-03 * 1-04 * 1	TM11-18.	19 min 1 2		11-4/8	297 297 297 297 297
	•	D BIT 10 D BIT 10 D BIT 10 D BIT 10 D BIT 10		U A	A07MI A08NI B12D2 B13NI	1-01 # 1-02 # 1-03 # 1-04 #	TH11-13			11-6/8	298 298 296 298 298

Ť

TM11.T RUN NAME	HND288.V22(22) A/P PIN ORDE NAME PIN	R BAY -	G DRAW RV PG Y X		8-JUL-74 Length	8:51 PAGE 33 EXCEPTIONS RUN NUMBER
D 457 11 D 617 11 D 617 11 D 617 11 D 617 11	L A07H1 L A08K2 L H12A1 L H13K2	1+01 # 1+02 # 1+03 # 1+04 #	TM11=13 TM11=13 TM11=18 TM11=14	2 1 2	11-6/8	299 299 299 299 299
D 617 12 D 617 12 D 617 12 D 617 12 D 617 12	L A07F2 L A08K1 L B13K1 L B12M2	1+01 # 1+02 # 1+03 # 1+04 #	TM:10:13 TM:10:13 TM:10:14 TM:10:18			300 300 300 300
D BIT 12 D BIT 13	L AO7E1	1-01-4	TH11-13	2	11-6/8	300 301
D BIT 13 D BIT 13 D BIT 13 D BIT 13	L 812H2 L 813F2	1-02 # 1-03 # 1-04 #	THII-18 THII-13 THII-14		12-2/8	301 301 301 301
D BIT 14 D BIT 14 D BIT 14	L A08F1 L A07L2 L B13F1	1-01 # 1-02 # 1-03 #	TH11-13 TH11-13	2 1 2		302 302 302
D BIT 14 D BIT 14 D BIT 15	L 812M1	1-04 # 1 1-01 #	TH11-18 TH11-13		12-2/8	302 302
D BIT 15 D BIT 15 D BIT 15	L A08C1 L B13C1 L B12J1	1-02 # 1-03 # 1-04 #	TM11=13 TM11=14 TM11=16	2		303 303 303 303
D BIT 15 DOU	H A23R1 H B23B1 H B22C1 H A12N1 H B09V2	1	R1 R1 R1 R1 R1	1 2 1 2	12-2/8	304 304 304 304 304 304
D00 D00 D00	L A17P2 L A23S1	1-01 4 1-02 4	TH11-11 TH11-12		21-0/8 5-2/8	304 305 305 305 305
D01 D01 D01 D01 D01 D01	H B09T2 H A12H1 H A14J1 H B23H1 H B32H1	1-01 # 1-02 # 1-03 # 1-04 # 1-05 #	TH11-12 TH11-18 TH11-07 TH11-15 TH11-05	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		306 306 306 306 306
					24-6/8	306

1	M11	. T		1.50			М	ND288, V2	2(22	1 11	/06/7	3					Re.1	UL-74	8151	PAGE	34
1	RUN	NAME		-		. ^		PTN NAME	ORDI	ER	BAY	- Q	DRAW RV	PG Y X	Z	REMARKS	<b>U-U</b>	LENGTH	EXCEPTIONS	RU	N
	002			٠		V.:	H	A14E2 A12M1			1-01		TH11-07		1					30	
í	002						H	B09R2			1-02	*	TM11-18 TM11-12		1			e gradini i dina		30 30	
	002 002						н	B23N1			1-04	*	TM11-15		4 17 + 18			19-2/8		30	
	00 á						Н	BUSNS			1-01	(15 시) 영화 교육(1	muda da			, p. 3				30	
i	003	<u>.</u>					H I	A12F2	7 .		1-02		TH11-12 TH11-18		2					30	3
	)U3						H H	A14C1 B24B1			1-03		TM11-07 TM11-15		1 2					308	
	003 003						H	832J1			1=05		TM11-05	and and an extra	and Toronto			<b>\$</b> 50./0		306	3
-											•	W.						25=0/8		308	
	DO4			•			H	809L2 A12T2			1-01		TM11-12 TM11-18		2	Al of the first				309	
	004 004						H	A21M1 B24H1			1-03	#	TM11-20		2					309	) :
	DQ 4				100			DZ4NI			1-04		TM11-15		Harry 1			17-0/8		309	
1	005			1 N			н	B09J2	의학사 경우강		1=01		TN11-12		2					310	
	005 005						H	A12N2 A21K1		ionii i	1-02		TM11-18	and the second	1	ger autor da l'itomonada	The second of the second	Towns to the standard of the s		310	)
900	205						Н	B24N1	est. La catal		1-04	#	TM11-20 TM11-15		4					310 310	)
20	005					· .				$M_{\rm s}^{2}$ .	1							18-2/8		310	
	006 006	*				, it	H	809F2		5 % 5 %	1-01		TH11-12		2					311	
<b>3</b>	D06						Н	A24J1	4.64		1=02	<b>*</b> ** /*	TM11=18 TM11=08		2					31 i 31 i	
	DU 6		, 0		-		H	H25B1	e de la composición d La composición de la		1=04	o <b>#</b> Selve j	TH11-15			grandarija š		17-6/8		311	
	DU7	· · · · ·				ngert van George	24				1-01	1. 1. 1			_				Artini 🛣		4.0
	DU7						H	809D2	3	atterior i	1-02	*	TM11+18.		1	. సంఘంత కని			eni Pre i Longo i ente	317 312	}
	D07 D07						H :	B25H1			1=03	*	TM11-15					15-0/8		312	
	DUB						H.	44.080													14 / AM
	DOB	*.					H .	A19F2			1-01		TH11=05		2 1					313 313	
	DOR DOR						H	B23D1			1=03		TM11-15		2					313	
	DOR						н	847K1	100	5 1	1-04	*			1 .	and the second				313	

•

•	TM11 RUN	1.T Name	:	sei s		A		ND288.V2 PIN NAME	ORDER		• . (	DRAW RV	PG Y	X Z RI	emarks .	8-JUL-74 Length	8151 EXCEPTIONS	PAGE 35 RUN Number
•	008 008 008	K.					L L	A1902 A24H1		1-01 1-02		TM11-05 TM11-13		1		4-2/8		314 314 314
•	D09 D09 D09 D09			*	5 y	: 1	H H H	H2 4K1 A23D1 A19N2 A14P1 A12V2		1-01 1-02 1-03 1-04 1-05	* * * * * * * * * * * * * * * * * * * *	TM11-15 TM11-13 TM11-05 TM11-18 TM11-10		1 2 1 2 1				315 315 315 315 315
) 	D09 D09 D09 D09		Ņ. i	· · · · · · · · · · · · · · · · · · ·			H L L	80981 A19K2 A23E1		1-06 1 1-01 1-02	•	TM11-13 TM11-05 TM11-13		<b>1</b>		24-2/8 4-2/8		315 315 316 316 316
ATEN	D10 D10 D10 D10					\$ ( ) ( )	H H H	809P1 812E2 A14M2 A19T2 A23C1 B23R1		1+01 1+02 1+03 1+04 1-05	*	TM11-13 TM11-16 TM11-10 TM11-05 TM11-13 TM11-15		1 2 1 1				317 317 317 317 317 317
TO CORPORATION	Dio Dio Dio Dio						L L	A19R2 A2302		1+01 1+02	•	TM11=05 TM11=13				25-6/8 5-0/8		317 318 318 318 318
· 3	D11 D11 D11 D11 D11						H H H	B09M1 A12U2 B24D1 B31T2		1-01 1-02 1-03 1-04	. <b>#</b>	TM11-13 TM11-18 TM11-15 TM11-08		2 1 2		20-4/8		319 319 319 319 319
•	D12 D12 D12 D12 D12					I	H H H	B09K1 B12L2 A1GP2 B24KI		1-01 1-02 1-03 1-04	#	TH11-13 TH11-18 TH11-16 TH11-15		1 2 1		16-6/8		320 320 320 320 320
<b>3</b>	D13 D13 D13 D13 D13						H H H H	A24C1 B24R1 B12F2 B09H1 B21R2		1-01 1-02 1-03 1-04 1-05	•		R1 R1 R1 R1	2 1 2 1		28-2/8		321 321 321 321 321 321 321

. 4	9	,							1. 12.										
	_																		
•	9	N. J		iner.															
	es.	TM11.	r	.:			н	NU288.V2	21225	11/06/78				1.		0.	JUL-74	8:51	PAGE 36
Ì	•	RUNN						PIN NAME	URDER		٥	DRAW RV	PG Y	X	Z REMARKS	_	LENGTH	EXCEPTIONS	HUN NUMBER
	<b>3</b>	D14															***	179 y 1883 -	
		D14					H	B22N2 A24E2		1-01		A second second	R1		1 2				322 322
	9	D14		2			H	82501 81281		1=03 4			R1 R1		1				322 322
		D14	. 1				. H	B09E1		1-05			R1		4				322
1	<b>(39</b> )	D14	•							1.							25-0/8		322
		D15	* *	٠.			н -	80981		1-01 +		TH11-13			2				323
	<b>o</b>	D15					H	812H1 825K1		1-02 4		TM11-18			1				323 323
	_	Dis					•			1		*******					1.3-0/8		323
1	Ø .	DATA	BFR	IN	BIT (	)	н	A21P1		: 1-01 d		TH11-20	,		1				324
		DATA					H	816J2		1-02		TM11-15							324
	60	DATA	15 15	ΤM	BIT					1			4, 74				5-4/8	24	324
	•	DATA					H	A2101 B1691	a de troper a	1-01		TM11+20			1				325 325
	<b>6</b>	DATA						prost		1		TH11-15	<b>*</b>				7-2/8		325
	D NO	DATA	BER	IN	RIT	,	H	A21R1	1	1-01		TM11-20	A REPOR					រៀវទៅមានកាត់និះ	326
	PME	DATA	BFR	IN	BLT :	?	н	81012		1-02 4	ŀ	TM11-15				1.1.0			326
	<b>⊕</b> 200	DATA	BFR	IN	BIT :	?		1.00				e Kapan Jawa Sa	and the	4		1 0 4 7 W 1911	5-6/8	grada grada ek	326
	- 8	DATA					H	AZIEL		1-01		TH11-20	, i						.327
	<b>.</b> [	DATA DATA					Н	81681		1+02		TH11-18					7-4/8		327 327
	0	DATA	o e o	T N	13 F Tr			404114	1. ""	1-04		<b>B</b> W44 00		4.34					328
	0	DATA	BFR	IN	HIT .	١.	. Н . Н	A21U1		1-01		TH11-20		973 <b>,</b> 44				380, may 180	126
		DATA	BFR	IN	HIT						San ji. Sangan						5=6/9		328
	6	DATA					H	A21B1	Berther (B) 40	1-01 (	t :	TM11-20		400년 - 11일 - 12일 - 1 - 12일 - br>- 12일 - 122	1	or a West of	Kita jada 14 m		329
		DATA					H	B1601		1-02	l .	TM11-15	,				8-0/8		329 329
	<b>@</b>					100													
		DATA					H	A21V1 B16T2		1-01 (		TN11-20			1				330 330
	6	DATA	BFR	1 N	T18	<b>6</b>				1							5-6/8		330
		DATA					н	A21A1		1-01 1		TM11-20			1				331
	€31	DATA DATA					H	B16V2		1-02 1	}eeda Se	TH11-15	,				9-2/8		331 331
		<i>-</i>	176 61		.,						7.	i kaling Serias di Kabupatèn Kabupatèn			No. 1 martin de la companya de la c La companya de la co				
	<b>(4)</b>		1.1	1-61			100				• • 7		* ***	in the second	فتقلق فللتات فيسا		are taken in the contraction	e a sur ú trof (caf)	
											•			*	1.4				
	`ā.												• •						
						4													
'	-13			•													4		
	ෙ							to a second of											
	~				:														
								•											

TMILLT RUN NAME		(22) 11/06/73 DRDER BAY - PIN ORDER	Q DRAW I	RV PG Y X Z	8-JUL-74 REMARKS LENGTH	8151 PAGE 37 EXCEPTIONS RUN NUMBER
DATA BER OUT BIT Q DATA BER OUT BIT 0 DATA BER OUT BIT 0 DATA BER OUT BIT 0	H B2782 H A19B1 H A2182 H B17N1	1=01 1=02 1=03 1=04		I 1 1 R1 2 R1 1		332 332 332
DATA BER OUT BIT O	H A13P1	1-05		R1 2 R1	24-6/8	332 332 332
DATA BFR OUT BIT 1	H A13L2 H B13L2 H B17E2 H A21M2 H B27R2	1=01 1=02 1=03 1=04 1=05		R1 2 R1 1 R1 2 R1 1		333 333 333 333 333
DATA BER OUT BIT 2	H A13L1 H B13L1 H B1/L2 H A21T2 H B27P2	1-01   1-02   1-03   1-04   1-05   1-		R1 2 R1 1 R1 2 R1 2 R1 1	21-4/8	334 334 334 334 334 334
DATA BER OUT BIT 3	H A21L2 H A13H2 H B13H2 H B17S2 H B27N2	1 +01 + 1 +02 + 1 +03 + 4 + 1 +05 + 1		R1 2 R1 1 R1 2 R1 1	21-0/8	334 335 335 335 335 335 335
DATA BER OUT BIT 4	H A13H1 H B13H1 H B17R1 H A21U2 H B29L2 H B27M2	1-01 4 1+02 4 1+03 4 1-05 4 1-06 6		R1 2 R1 1 R1 2 R1 1 R1 2	26-2/8	336 336 336 336 336 336 336
DATA BER OUT BIT 5	H 817H2 H B13D2 H A13D2 H A21E2 H B29P2 H B27L2	1-01 4 1-02 4 1-03 4 1-04 4 1-05 6		R1 2 R1 1 R1 2 R1 1 R1 2	27-2/8	337 337 337 337 337 337 337
TM11.T RUN NAME	VV6 BIN C	(22) 11/06/73 PRDER BAY -	Q DRAW F	RV PG Y X Z	8-JUL-74 REMARKS LENGTH	8:51 PAGE 38 Exceptions Run

DATA BFR OUT BIT 7 H A21D2 1-01 * R1 1 DATA BFR UUT BIT 7 H A13A1 1-02 * R1 2 DATA BFR UUT BIT 7 H B13A1 1-03 * R1 1 DATA BFR OUT BIT 7 H B13A1 1-03 * R1 1 DATA BFR OUT BIT 7 H B19P2 1-05 * R1 2 DATA BFR OUT BIT 7 H B27J2 1-05 * R1 1 DATA BFR UUT BIT 7 H B27J2 1-06 * I  DATA BFR STB 1 H A2UL1 1-01 * TM11-15 1 DATA BFR STB 1 H A21S1 1-02 * TM11-20	NUMBER 338 336 338 338
DATA BFR QUT BIT 6	338 338 338 338
DATA BFR QUT BIT 6	338 338 338 338
DATA BFR OUT BIT 6	338 338
DATA BFR OUT BIT 6	338
DATA BFR OUT BIT 6	
DATA BFR OUT BIT 6	330
DATA BFR OUT BIT 6  DATA BFR OUT BIT 7	338 338
DATA BFR OUT BIT 7 H A21D2 1-01 * R1 1 DATA BFR UUT BIT 7 H A13A1 1-02 * R1 2 DATA BFR UUT BIT 7 H B13A1 1-03 * R1 1 DATA BFR OUT BIT 7 H B17U2 1-04 * R1 2 DATA BFR OUT BIT 7 H B19P2 1-05 * R1 1 DATA BFR OUT BIT 7 H B27J2 1-05 * R1 1 DATA BFR UUT BIT 7 H B27J2 1-06 * I  DATA BFR STB 1 H A2UL1 1-01 * TM11-15 1 DATA BFR STB 1 H A21S1 1-02 * TM11-20 DATA BFR STB 1	25=0/8 338
DATA BFR UUT BIT 7 H A13A1 1=02 * R1 2 DATA BFR UUT BIT 7 H B13A1 1=03 * R1 1  DATA BFR OUT BIT 7 H B13A1 1=03 * R1 1  DATA BFR OUT BIT 7 H B19P2 1=05 * R1 1  DATA BFR OUT BIT 7 H B27J2 1=06 * I  DATA BFR UUT BIT 7 H B27J2 1=06 * I  DATA BFR STB 1 H A2UL1 1=01 * TM11=15 1  DATA BFR STB 1 H A21S1 1=02 * TM11=20  DATA BFR STB 1 H A21S1 1=02 * TM11=20	1240/0
DATA BFR UUT BIT 7 H A13A1 1=02 * R1 2 DATA BFR UUT BIT 7 H B13A1 1=03 * R1 1  DATA BFR OUT BIT 7 H B17U2 1=04 * R1 2 DATA BFR OUT BIT 7 H B19P2 1=05 * R1 1 DATA BFR UUT BIT 7 H B27U2 1=06 * I  DATA BFR UUT BIT 7 H B27U2 1=06 * I  DATA BFR STB 1 H A2UL1 1=01 * TM11=15 1 DATA BFR STB 1 H A21S1 1=02 * TM11=20 DATA BFR STB 1 H A21S1 1=02 * TM11=20	339
DATA BFR UUT BIT 7 H BIBAI 1-03 # RI 1 DATA BFR OUT BIT 7 H BI7U2 1-04 # RI 2 DATA BFR OUT BIT 7 H BI9P2 1-05 # RI 1 DATA BFR OUT BIT 7 H B27U2 1-06 # I DATA BFR OUT BIT 7 H B27U2 1-06 # I DATA BFR STB 1 H A2ULI 1-01 # TM11-15 1 DATA BFR STB 1 H A2ISI 1-02 # TM11-20 DATA BFR STB 1 1 1	339
DATA BFR OUT BIT 7 DATA BFR STB 1	339
DATA BFR OUT BIT 7 H B19P2 1=05 W R1 1 DATA BFR OUT BIT 7 H B27J2 1=06 W I  DATA BFR OUT BIT 7   1	339
DATA BFR OUT BIT 7 H B27J2 1-06 4 1 2  DATA BFR STH 1 H A2ULI 1-01 # TM11-15 1  DATA BFR STH 1 H A2ISI 1-02 # TM11-20  DATA BFR STH 1 H A2ISI 1-02 # TM11-20	339
DATA BFR STH 1 H A2ULI 1-01 # TH11-15 1  DATA BFR STH 1 H A2ISI 1-02 # TH11-20  DATA BFR STH 1 1 1	339
DATA BFR STB 1 H A2ULI 1-01 # TM11-15 1  DATA BFR STB 1 H A2ISI 1-02 # TM11-20  DATA BFR STB 1 I I I I I I I I I I I I I I I I I I	27-6/8 339
DATA BFR STB 1 H A2181 1-02 # TH11-20 DATA BFR STB 1	,7-076 339
DATA BFR STB 1 H A2181 1-02 # TH11-20 DATA BFR STB 1	340
DATA BFR STB 1	340
and 📭 and the control of the contro	3-2/8 340
	34276
© 20 DATA BFR STB 2 H AtoF1 1=01 # TM11=15	341
	341
DATA BER STH 2	5-0/8 341
or 🕳 🔡 in the contract of the contract of the first track of the contract of	3-070
DATA STB 1 H ALIPINA 21001 W THILES	342
DATA STB 1 A A1R1 A1R1 A1R1	342
O DATA STB 1 H A11R2 1-03 * TM11-24	342
DATA STB 1	5-0/8 342
	344
● DATA STB (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-PIN RUN 343
그 그는 사람들은 그는 사람들이 되었다면 그리를 가는 사람들이 되었다면 하셨다면 하는 것이 되었다. 그는 사람들이 되었다는 것이 없는 것이 없는 것이 없다면 없다면 살아보다면 살아 없다면 없다면 살아 없었다면 살아 없다면 살아 싶다면 살아 살아 싶다면 살아 싶다면 살아 살아 살아 살아 살아 살아요니다면 살아요니다면 살아요니다면 살아요니다면 살아 살아 살아요니다면 살	
DATA STB 2 ALL STOP HAM ALLEY ALLEY ALLEY ALLEY AND ALLEY AL	344
● DATA STH 2 H A26A1 1=02 + TM11=15	344
DATA STB 2	0-2/8 344
G DATA STB 2 L A1172 THOU W TM11-24	345
DATA STB 2 L A11L2 1-02 # TN11-24	345
DATA STB 2	345
a DATA STB 2	9-6/8 345
DATA TO BUS H A19N1 1=01 * TM11=25 2	346
@ DATA TO BUS H A19H1 1=02 * TM11=25	346
DATA TO BUS H. A11E2 1=03 + TH11=24	346
	9+2/8 346
DATA TO BUS L A11F2 TM11-24	340
	9=278 346 1=PIN RUN 347

	P TM11.T RUN NAME	A/P PTN		/UG/73 BAY =		DRAW RV		X	Z	-JUL-74 Length		
•	DEN 5 DEN 5 DEN 5 DEN 5 DEN 5	NAME Au <b>3F1</b> A <b>04F1</b> A26V2	a	1-01 # 1-02 # 1-03 #	C	TM11-02 TM11-02 TM11-08			2	17-0/8	CABLE CABLE TERM HERE?	348 348 348 348
•	DEN 5 DEN 5 DEN 5 DEN 5 DEN 5 DEN 5	H A24E1 H A17R1 H A08D2 H B00L2		1-02 -		TM11-08 TM11-08 TM11-13 TM11-03			1 2	19-6/8	TERM HERE?	349 349 349 349 349
4	D DEN 8 DEN 8 DEN 8	A03E1 A04E1 A06U1			C	TM11-02 TM11-02 TM11-08			2	7-0/8	CABLE CABLE TERM HERE?	350 350 350 350
•	DEN 8 DEN 8 DEN 8	H A24H2 H A17P1 H AU8D1 H BUGJ2		1-01 # 1-02 # 1-03 # 1-04 #	C.	TM11-08 TM11-08 TM11-03 TM11-13			2 1 2	19-6/8	TERM HERE? Cable Term Here?	351 361 361 351 351
•	ENB SOWN GO ENB SOWN GO ENB SOWN GO	L A2682 L B15F2		!=01 # !=02 #			R1 R1		1	8=4/8		352 352 352
0	BE ENH US CLK ENH US CLK ENH US CLK ENH US CLK	H A17N1 H A27D2 H A25D1		1-01 # 1-02 # 1-03 #			1 1 1		1 2	11-4/8		353 353 353 353
6	EUFF EOFF	H B18U1 H B15L1 H A08E1 H B06U2		1+01 # 1+02 # 1+03 1-04 #			R1 R1 R1 R2		2 1 2	18-4/8		354 354 354 354 354
U	EOFF EOFF EOFF EOFF	L A29P1 L A1/F1 L B18S1		1=01 # 1=02 # 1=03 #			R1 R1 I		1 2	15-0/8		355 355 355 355
0	EOT EOT	A05C1 B04R2 B03R2		1=01 # 1=02 # 1=03 #		TM11-08 TM11-02 TM11-02			1 2	9-2/8	TERM HERE? Cable Cable	356 356 356 356
9												
69												
9												
6	RUN NAME	HND288.V A/P PIN NAME	22(22) 11 ORDER PIN		Q	DRAW RV	PG Y	X	2	-JUL-74 Length		PAGE 40 RUN Number
e	EOT EOT EOT EOT EOT	H A17J2 H A05D2 H A08H1 H B06T2		1=01 # 1=02 # 1=03 # 1=04 #	С	TM11-17 TM11-08 TM11-03 TM11-13			1 2 1	18-2/8	TERM HERE? Cable Term Here?	357 357 357 357 357
•	ERR ERR	H AUSAI H BOGEL		1=01 +		TH11-13 TH11-03			2		TERM HERE?	358 358

	TM11.T RUN NAME	HND288.V22 A/P PLN NAME	ORDER BAY - PIN ORDER	a DF	RAW RV PG Y	<b>x 2</b>	REMARKS	8-JUL-74 LENGTH	8:51 EXCEPTIONS	PAGE 40 RUN NUMBER
	EOT EOT © EUT EOT	H A17J2 H A05D2 H A08M1 H B06T2	1=02 + 1=03 + 1=04 +	C TH	411-08	1 2 1			TERM HERE? Cable Term Here?	357 357 357 357
	ERR ERR SERR ERR ERR	H A08A1 H B06E1 H B18VI	1-01 1-02 1-03	Th C Th	411-13 411-03 411-17	2		18-2/8 15-2/8	TERM HERE? CABLE TERM HERE?	357 358 358 358 358
	ERR ERR ERR	L A30D2 L B18V2	1-02		Ri Ri			10-2/8		359 359 359
	EVEN CHAR  EVEN CHAR EVEN CHAR EVEN CHAR EVEN CHAR	H B22M1 L A27U2 L B22K1 L B28N1	1+01 + 1+02 + 1+03 +	71	411-11 411-09 411-11 411-11	2		8-4/8	1-PIN RUN	360 361 361 361 361
	EVEN CHAR STH	H 816F2 H 817F2 H 817F1 H 817F1	1+03	T) T)	111-09 111-09 111-09 111-09	1		11-4/8		362 362 362 362 362 362 362
· . · · · · · · · · · · · · · · · · · ·	EVEN CHAR STH EVEN CHAR STH EVEN CHAR STR EVEN CHAR STH EVEN CHAR STH EVEN CHAR STH	L A2772 L B18C1 L 81702 L B17K2 L B17R2 L B17R1	1-02 - 1-03 - 1-05 - 1-06 - 1-	The The	111-09 111-15 111-09 111-09 111-09	2				363 363 363 363 363
	EVEN CHAR STH EVEN CHAR STH EVEN CHAR STH	6 B1662 6 B1461	1-07 - 1-08 - 1-01 -	T	(11-0 <b>9</b> (11-11			26-0/8	TERM HERE?	363 363 363
	FMK G. FMK FMK FMK	A25T2 80481 80381	1-02 + 1-03 + 1-04 +	THE C THE	411-17 411-02 411-02			19=4/8	CABLE CABLE	364 364 364 364
									en e	
	€									
	And the second s									

RUN NAME				IND288,V2 PIN NAME	22(22) 11 ORDER PIN	BAY = ORDER	Q	DRAW RV	PG Y	x	<b>Z</b>	REMARKS	8-JUL-74 Length	8151 EXCEPTIONS	PAGE 41 RUN NUMBER
FUNCTION	HIT O		н	A1581	Section 1	1-01		TM11=07			2			TERM HERE?	365
PUNCTION			, H	ALALI		1-02		TM11-07			- î		•	IDAN MERCI	365
FUNCTION			н	80862		1-03		TM11-12			2				365
FUNCTION			- н	BOORS		1=04		TM11-03			••			CABLE	365
FUNCTION			••	3		1		1011-03					13-2/8	CMDDE	365
ONCILOR		**			11 to 12 to			Section 1		9			13-270		303
FUNCTION	ATT 1		н	A15C1		1-01	ц.	TM11-07	. 1		2	1		TERM HERE?	366
FUNCTION			н.	A14H2	100	1-02		TM11-07			1			TENN BEKET	366
FUNCTION			н	80811		1-03		TM11-12			2				366
FUNCTION			н	B06N2		1=04		TM11-03			2			CABLE	366
FUNCTION				170042		1		1911-03					13-0/8	CMBUE	366
ONCITOR										1,		And the second	(3-0/6	and the second	.300
FUNCTION	AIT 2		H	A15D1	A	1-01		TM11-07			2			TERM HEREZ	367
UNCTION			н	A14E1		1-02		TM11-07			î		,	TOWN HEVET	36 <i>7</i>
TUNCTION			H	80845		1-03		TM11-12			2				36 <i>7</i>
UNCTION			H	80681		1-04		TM11-03						CABLE	367
UNCTION			.,					2.7.2.0					1.3-4/8	CHILL	367
One 110	J					- 1 ·					100		1.7		30,
WD .				AU3K1		1-01 4	C	TH11-02			2.	er a sakar a ja		CABLE	368
WD				A04K1		1-02		TM11-02			1			CABLE	368
.MD				80581		1-03		TM11-07			•			TERM HERE?	368
WD						1			1.0			•	8-6/8		368
								-							200
IND U1				A0182		1-01	<b>.</b>	TH11-01	318		1		the state of the s		369
ND 01				A01C2	1.	1-02	<b>H</b>			1.	2				369
ND U1		٠.		ADINE		1-03	H	TH11-01	100		. 1				369
ND U1				AUIRI		1-04	H	TM11-01			2				369
ND J1	* * .			AUIPI		1-05 4	¥	TM11-01	· · · · · ·		1 1 .			14	369
ND 01				. A0151		1-06 4	H	TM11-01	100		2				369
ND 01				ADITE		1-07 4	<b>.</b>		6	100	1		•		369
ND 01	4.			A0172		1-08		TH11-01			2				369
ND 01				B0162		1-09	•	TN11-01	300	$\alpha = (\omega_{i})^{-1}$	1				369
ND OI				B01D1	·	1-10		TM11-01			2				369
ND UI	1.1			B01C2		1-11	+		٠.,		1 .				369
ND U1				801E1		1-12	*	TM11-01			2.				369
ND 01	5.60	137		BOITS		1-13			5.7		1				369
ND U1		**		B01 V2		1-14		TN11-01		1.00					369
ND OL				and the second		. 1					100		36-2/8		369
											100		<del></del>		7 - 1 - 1
										ts.					
						* * * * * * * * * * * * * * * * * * * *									
												14		et a et	
						\$ 100	100	1.1	1.5		4 18		the state of the state of		
•															
•		42.5							100		a estima				4. 1. 1. 1. 1. 1.
		42.1									+ 51.				
		42.7													

•

												¥ %							. :		
	TMIL.T RUN NAM	E			۸/6		V22(22) ORDE PIN	R B	AY -	Q	DRAW RV	PG Y	x	Z I	REMARKS	8-	-JUL-74 Length	B:51 EXCEPT	LUNS	PAGE 4 RUN Numbe	
	GND 02	1				A021		5.06	•01 <b>*</b>	1	TM11-01		ing Kabang	•		$x_{i_1}^{(i_1)} \leq y_{i_2}$				370	
	GND 02					A020			•02 <b>*</b>		1011-01			2					, .	370	
	CND 02					AU21			-U3 #	***	TM11-01			1						370	
	GND U2					A021			-04 #		TM11-01			2						370	
	GND U2					A021			-05 *		TM11-01			1					100	370	
	GND 02				100	A02			•06 # •07 #		TM11-01		100	2	$e^{-1} \in \mathcal{E}_{1,1} = \mathbb{R}^n$		and the second			370 370	14.00
	GND U2					A02			-08 #		TM11-01			2						370	
	GNU UZ					802			=09 #		TM11-01			j						370	
	GND 02					B02			+10 #		TM11-01	*.		2						370	
	GND 02					B020			-11 *					1						370	
	GND U2			1		B021			-12 +		TM11-01		1	2	11.	A + 11.		4.0		370	
	GND 02					B02			•13 # •14 #	a sje	TM11-01			1.			i i i			370 370	
	GND U2					,002	•		-12 3	9.7	********	1.00		- N - N		***	36-2/8	ie ·	,	370	
							100					٠.				•					
	GND U3					A03			<b>-01</b> #		TM11-02			1						371	
	GND U3					A030			-03 *					2		47 2 67				371	300
	GND 03					A03			•03 <b>*</b>		TH11-02			1						371	
	GND U3			- 1		A031			04 # 05 #		TM11-02			4	1000					371 371	
	GND U3					V03			-06 #		-MII-02			2		., •				371	
2	GND U3					A03	51	1.	-07 #		TM11-02			1						371	
	GND U3					EUA			-08 *		TM11-02			2		11 12				371	
	GND 03				- 4	A03			-09 #	· .,	TM11-02			1		31.14		tyre, i		371	
3	GND U3				· 1	403 803			-10 +		TN11-02			2	3	Sec. 28.				37 i 37 i	
G	GND U3	- 1				B03			•11 # •12 #		TM11-02			2						371	
	GND U3					803			•13 *		4011402			1						371	
	GND 03					BU3			-14 .	G. 1.	TH11-02		4 12	2		4.00		0.0	3.7	371	1
	GND 03	.: '		*		B03	Pi 🖟 🚉		·15 +				3.7	1	Section 1			Addition to the		371	
	GND U3		4.	5.3		B03	12	1	-16 #		TH11-02		3.4.			V0 (1)				371	1.
	GND 03							1									41-2/8			371	

< 61

TM11,T RUN NAME	A/	HND288.V2 P PIN NAME	2(22) 1 Urder Pin	1/06/73 BAY - ORDER	٥	DRAW RV	PG Y	x	Z R	EMARKS	8-JUL-74 Length	8:51 EXCEPTIONS	PAGE 43 RUN Number
:1 <u>111</u>		); 					in the						
GND 04		A04B2 A04C2		1-01		TH11-02	3.4%	i i	2				372
GMD 04		004NI		1=03		TM11-02		· .	2	والمعاشر تعشر			372 372
GND U4		A04R1		1-04		TM11-02			2				372
GND 04		A04P1		1=05		TM11-02			ï				372
GND 04	Strate the transfer of the	AU4T1	1700	1-06					2		Ver. 11		372
GND U4		A0481		1-07		TH11-02			1 m -				372
GND U4		A04U1	-	√. 1 <del>,</del> 08 (		TM11-02			2				372
GND 04		AU4VI		1=09 (		TM11-02			1				372
GNU U4		A04V2		1-10		TM11-02			2	2.50		·. · · · .	372
GND 04		B04B2 B04D1	was a	1-11 4		TM11-02 TM11-02			]	100	and the second		372 372
GND 04		B04C2		1-13		1011-02			- î		n de la companya de La companya de la co		372
GND 04		B04E1		1-14		TH11-02		8 2 S	2		Asset by the Pile		172
GND 04		BOATI		1-15 4					1				372
GND 04		B04V2	1 Table 1	1-16 +	b	TM11-02	100						372
GND U4				1					1.0		41-2/8		372
			f. 14.										
CND US		A05C2	5.5	1-01					2				373
GND US		A05T1 B05C2		1-03			4.5		1	a spilote in the		and the figure	373 373
		B05T1		1=03									373
CND 05 GND 05				()			3 %		100	100	11-4/8		373
			***					4.0	5.40			4.3	717
GND 06	March 20 March	AUGC2		1-01		again an		100	1				374
GND UG		AUGTI		1-02				1.	2 4				374
GND OU GND OU		806C2 806T1		1-03 +		a in the			1				374
GND UD	and the second	00011	•	1704 4			200		14.3	•	44-440		374
G.III. GO			11.5	4			100			3.50 5.00	11-4/8		374
GNU 07		AU7C2		1-01 4				- 4	1	*			375
GND 07		AUTT		1-02					2				375
GND 07		BOACS	4.2	1-03 +					1				375
GND U7		BOTT		1-04 1	t .								375
GND 07				L	4.7						11-4/8		375
CND OB		AURC2		1-01 4		A STATE OF THE STA			•	and the			376
GND US		19804		1-02				100	4	100		The second second	376
GND UR		AOSTI		1-03					2				376
GND UR		BORC 2		1-04		* -		- 1 ×	ï			*	376
GND UB		B08T+	• •	1-05 4	•							100	376
CND OR			A-174	1	- T						14-0/8		376
		Company of the											
						2.59	A 18 A 18			4.55			
			100			14 to	4 8 81 L	1.5	11.0	v			
51 2.1				100					4.30				
		1 and 1 and 2	1	e de la companya della companya della companya de la companya della companya dell		e dy area. I	4 30 11		1.5				
				190									
		Walter State						100					
				14,				11.	*				
		N		25 (3.5)									

• .			
9			
0	RUN NAME AVE P	288, V22(22) 11/06/73 IN ORDER BAY - AME PIN ORDER	- Q DRAW RV PG Y X Z HEMARKS LENGTH EXCEPTIONS RUN
9	GND 09 GND 09 GND 09 GND 09 GND 09 GND 09	A09A1 1=01 A09C2 1=02 A09F1 1=03 A09H1 1=04 A09T1 1=05 A09V2 1=06 B09C2 1=07 B09T1 1=08	* TH11-21 2 377 377 377 377 377 377 377 377 377 3
9 · · · · · · · · · · · · · · · · · · ·	GND 1U GND 1U GND 1D GND 10 GND 10 GND 1U GND 10	A1UC2 1=01 A1UJ2 1=02 A1UJ2 1=02 A1UR1 1=03 A1UR1 1=05 B1UA1 1=06 B1UA1 1=06 B1UC2 1=08 B1UC2 1=08 B1UC2 1=09 B1UC1 1=10 B1UC1 1=10 B1UC1 1=10	378 2 * TM11+22
EQUIPME	GND 10 GND 10 GND 10 GND 10	B10L1 1-12 B10M1 1-13 B10T1 1-14 A11C2 1-01 A11H1 1-02	378 378 378 378 378 378 378
6	GND 11 GND 11 GND 11	A11T1 1-03 B11C2 1-04 B11T1 1-05	
Q .	GND 12 GND 12	A12C2 1=01 A12T1 1=02 B12C2 1=03 B12T1 1=04	1 *

TM11 RUN		E			*		PTN	O	RDER PIN	OG/73 BAY - ORDER	• ` (	<b>Q</b>	DRAW RV	PG	¥	X	Z	REMARK	S	8-70F		8:51 EXCEPTIONS	PAGE RUI NUMI
GND		- ;		٠		1	A 1.30			1=01							2						38
CHO						7.	ALS			1-02							1						38
GND							B130			1=03							2						38
GND							B13)			1=04			TM11-14 TM11-14				1						38
GND				1.7	7 4, 2	. Fr	B13			1-06			TM11-14			Y-1-2	í .	e e jarak					38 36
GND					11.		8130			1-07			TM11-14			1.	2	4.45		w.			38
GND			100				. B13'	FA, .		1-08	<b>#</b> ,	Ġ.		10	. 1						*		38
GND	13									1		٠									21-0/8		38
GND	14						A L 40	2		1-01	<b>#</b> .												38
GND				7.1			A141		4 1	1-02			4 4 22	e :			2			F1 1	$\boldsymbol{x} = \boldsymbol{y} = \boldsymbol{x}$		38
GND					11.	1. 12	B140			1+03					. *		1	Section No.					38
GND		•				7, 1	B141			1-04				Description 1	P	1	2	100					38
GND GND					200		B147			1-05			TM11=04				1						38
GND									1	1	₩		1611-04	•					100		16-4/8		38 38
				Z			1 0	7.3.5				: •		٠			10		1.	. "			•
GND		. +		14.		100	A150			1-01		. *					1				100		36
GND		٠.	( )	1		+ + 1	A150			1=02		. '	TH11-07			1	2						38.
GND							8150			1=04				1.			2						30 30
GND							8157	r s		1=05				. · .			•						38:
CND	15				3.	** :				- 1						1. 1.34	5				14-0/8		. 36
GND	• 4.							100		4-04				1.71			4					e to	
CND							A100			1-01						100	3	14		145			38
GND							8100			1-03							î						384
CND							8167			1-04	#					1.	-						38
GND	10		•				41.			1		1.1		3 :							11-4/8		38
GND	. 7					100	A170		A .	1-01									•			**	
GND							A173			1-02						1. 1.	1	1 + 22	1.7				389
GNU							8170			1-03							ī						385
GND							8171	r ( -		1-04				**	٠								389
GND	17								7.75	1										1	11-4/8	*	389
GND	18			100	· .		A180	. 2		1+01	<u> 4</u> 1		100	3.4	. 8		9	. 4.	2	· 1			386
GND					1		A181			1-02			TM11-06	111			1			1 - 1	•	100	386
GNU	18						. A181	21		1-03	*		TM11-04				2		1.00	٠			380
CND							A 1 81			1-04			<b></b>			- 1	1						386
GND							A181 B180			1-05			TH1 1-06				2 .						386
CND							818			1-07		٠.,	TH11-17				1 -			1,0		4	386 386
GND	18						8187			1-08					1 1		ī	The Arthur I		1			386
GND						1.0	8181			1-09	* .	Ţ.,	TH11-17	,			•	* *.* *.	·				386
CND	18			. '-						1								4 1			23-6/8		380
				1 4.			• .				86		400									1	100
		4.		1				1.0	75 - 7		6 to 188		12 1						A 15	100	1.0		

	TM11.T RUN NAME	HND288.V2 A/P PIN NAME	22(22) 11/06/73 	G DRAW RV PG Y	X Z REMAR	8-JUL-74 KS LENGTH	8:51 EXCEPTIONS	PAGE 46 Run Number
	GND 19	A19C3	1-01		1			387
i	GND 19 GND 19 GND 19 GND 19	A19T1 B19C2 B19T1	1+02 1+03 1+04	•	ter Bull <b>2</b> Bandina Tanàna	11-4/0		387 387 387 387
,						11-4/8	Same Park Contract	387 
	GND 20 GND 20	A2UC2 A2QT1	1-01					386
•	GND 20	B2UC2	1+02 1-03					388
	GND 20	. B2UTI	1-04		in the second			388
	GND 20		4.1			11-4/8		388
	GND 21	A21C2	1=01					389
	GND 21	A21C1	1=02					389
	GNU 21	A21F1	1=03	* TM11-20	2	en de la companya de La companya de la co		389
	GND 21 GND 21	A21T1	1-04		1	with the second	•	389
	GND 21	021C2 821T1	1=05 1=06		A Company of the August Company	a a garanta a salah a		389 389
	GND 21					16-2/8		389
·z				하는 하는 이 등 이번을 받다.				
Ę	GND 22 GND 22	A22C2	1-01		1			390
Ö	GND 22	A22T1 B22C2	1=02 1=03		2			390 390
30	GND 22	62371	1-04		e arm in the second	the state of the state of	· Landa e de la companya de la comp	390
	GND 22					11-4/8		390
	CND 23	40.200				a tro há suáis en lo		
	GND 23	^23C2 A23T1	1=01 1=02		2			391 391
	GND 23	82 JC2	1-03		2			391
	GND 23	B2372	1+04				10 m	391
	GND 23 GND 23	B23M2	1-05					39)
	GND 23	823T2 823T1	1+06			a akti ita kita a	A Property and the	\$91
	GND 23		1			18-6/A		391
	ano at			en andre de la companya de la compa				
	GND 24 GND 24	A24C2 A24T#	1+01		1			392 392
	GND 24	B24C2	1.03					392
	GND 24	B24F2	1-04	* TM11-15	2			392
	GND 24	B24T1	1-05	★ Property Control				392
	GNU 24			The state of the s	ar da an Lag	14-0/8		392
	GND 25	A25C2	1 401					393
	GND 25	A25T1	1-02		ż		100	393
	GND 25	B25C2	1-03		1			39.1
	GND 25	B25T1	1-04	•	and the state of t			393
	GND 25		n de la companya de Na companya de la co	and the second of the second o	The second of the second	11-4/8		393

E	TM11.T RUN NAME	HND288, V22(22) 11 A/P PIN ORDER NAME PIN	1/06/73 BAY - Q DRAW RV PG Y ORDER	8-JUL-74 X Z REMARKS LENGT	NUMBER
•	GND 26 GND 20 GND 20 GND 20 GND 26	A2GC2 A26T1 B2UC2 B2UT1	1=01 # 1=02 # 1=03 # 1=04 #	11-4/	394 394 394 394 8 394
•	GND 27 GND 21 GND 27 GND 27 GND 27	A27C2 A27T1 B27C2 B27T1	1+01 • 1+02 • 1+04 • 1+04 •	1 2 1 11-4/	
•	GND 28 GND 28 GND 28 GND 28 GND 28	A28C2 A28T1 H28C2 H28T1 B28E1 H28E1	1+01 * 1+02 * 1+03 * 1+04 * 1+05 *		296 396 396 396 396
P P P P P P P P P P P P P P P P P P P	GND 28 GND 29 GND 29 GND 29 GND 29 GND 29 GND 29	A29C2 A29T1 B29C2 B29T1	1=01 * 1=02 * 1=03 * 1=04 *	1 1 2 1	397 397 397 397 397
5	GND 30 GND 30 GND 30 GND 30 GND 30	A30C2 A30T1 B30C2 B30T1	1=01 # 1=02 # 1=03 # 1=04 # 1=	11-4/ 1 2 1	398 398 398 398
•	GND 31 GND 31 GND 31 GND 31 GND 31	A31C2 A31T1 B31C2 B31J1 B31T1	1-01 # 1-02 # 1-03 # 1-04 * TM11-04 1-05 #	1	399 399 399 399 399
• .	GND 31 GND 32 GND 32 GND 32 GND 32 GND 32	A32C2 A32T1 B32C2 B32T1	1-01 # 1-02 # 1-03 # 1-04 #	13-6/	8 399 400 400 400 400
•					
•					
<b>3</b>					
•	TM11.T RUN NAME	HND288,V22(22) 11 A/P PIN ORDER NAME PIN	I/UG/73 BAY - Q DRAW RV PG Y DROER	8-JUL-74 X Z REMARKS LENGTI	8:51 PAGE 48 1 Exceptions Run Number
9	GO BIT	H A28M1 H A29M1 H A2UR2 H B22E1 H B0BP1 H B27B1 H A27P1 H A1882	1+01 # I 1+02 # R1 1+03 # R1 1+04 # R1 1+05 # R1 1+06 # I 1+07 # I		401 401 401 401 401 401 401 401
9	GO STROBE I	H A32F1 L A18N1 L A32H1 L B32D2	TH11-04 1-01 % R1 1-02 9 R1 1-03 # R1	46-4/8 2	1-PIN RUN 402 403 403 403 403
SORATION T	GO STROBE 2 GO STROBE 2 GO STROBE 2 GO STROBE 2	H A3201 H A17F2 H A16L2 H B15H2 H B15J1	I-01 * TH11-04 I-02 * TH11-04 I-03 * TH11-13 I-04 * TH11-04 I-05 * TH11-04	14-4/6	404 404 404 404 404
	GO STROBE 2	L A32K1 L A2452 L A18L2 L B14H1 L H14L2 L B22L1 L B22L1 L B22L1 L B22L1	= 01	20-2/8 2. 1 2 1 2 1 2 3 3 36-0/8	404 405 405 405 405 405 405 406 406 406
•	GSD GSD GSO	H A23N2 H 013J1	1+01 * 1 1+02 * 1	30=0/8 8=4/8	406 406 406 406
•	GSD GSD GSD GSD	U A29M2 U A20P2 U A20T2 U A23M2	1=01		407 407 407 407

	TM I RUN									P	288,V In Ame	OF	2) 1 DER 1N	BA	//3 Y = Der	Q	O	RAW	RV	PG	¥	X	2.	REM	ARKE		8	10L-1	74 Ength	SESI (CEP:	rions	. 1	GE 4 RUN JMBE	
	HI	DA	TA:	BYTI BYTI BYTI	E		)   (44)   11		L L		A19L1 B1302				01			M11-			. **		\$ 3			a,			I <b>-</b> 2/8			, , ,	108 108 108	
•	ILC ILC ILC ILC				, c	1. 1.		• • • • •	H H H		A27P2 A24V2 B15R1 A08B1 B06P2			1 m	01 02 03 04	# # #	V -	ga (M		I Ri Ri Ri	9		2 1 2 1					26	-6/8			4	109 109 109 109	
	ILC IN	•	i.						L H		A24¥1 A09H1							M11-					4							PIN Pln			110	
ř	INF INF INF	1 B	TE TE						ն ն ն		H2UN2 B1551 A2UN2 A22M1		22H1	1-	01 02 03 04	*				R1 1 I			2 1 2					. 15	i-2/8				112 112 112 112	
COMPORATIO	INI INI INI INI INI	T T T T			•				H H H H		A12D1 A11J1 B15H1 B15J2 B15M2 B2UM1			1-0 1-0 1-0 1-0	01 02 03 04 05 06	*				R1 R1 R1 R1 R1 R1			1 2 1 2 1 2									4	13 13 13 13 13	
	INI INI INI INI INI	T		- 1 .				e.'	H H H H		62002 A21H1 A21J2 A23T2 A26L1 A25H2	٠.		1-1 1-1 1-1 1-1	07   08   09   10   11					R1 R1 R1 R1 R1			1 2 1 2 1 2									4	13 13 13 13 13	
	INI	τ.	٠.						H		A25B1 A25E1				14					R1 I			1.					46	-2/8			4	13	

INIT	PAGE 50 RUN NUMBER
NITT	414
S	414
INIT	414
TRIT	414
INIT   L	414
INIT	414
INIT	414
INIT   L   H31A    1-10 *   R1   1   1   1   1   1   1   1   1	414
INIT	414
STATE   STAT	414
INIT   L B31K2   1+13 # R1   2	414
INIT	414 (36,72)
INIT + GO	414
INIT + GO	414
INIT + GO	414
INIT + GO	415
INIT + GO	415
Sample   S	415
INIT + GO	415 415
Column   C	
INIT + GO	416
INIT + GO	416
INIT + GO  I B20V2  INIT + GO  I B18U2  I - 06 * R1 1  INIT + GO  I B18R1  I - 07 * R1 2  INIT + GO  I B18R1  I - 07 * R1 2  INIT + GO  I B18R1  I - 08 * R1 1  INIT + GO  I B18R1  I - 08 * R1 2  INIT + GO  I A11D2  I - 08 * R1 2  INIT + GO  I B18R2  INIT + GO  INI	416
INIT + GO	710
INIT REC H B10D2 1-01 * TM11-25 1 INIT REC H B15A1 1-02 * TM11-16 INIT REC H B15A1 1-02 * TM11-16	115
INIT REC H BISAL 1+02 THI-16	416
INIT REC H BISAT 1-02 THIS-16	417
INIT REC	417
그는 사람들은 사람들이 가는 사람들이 되었다. 그는 사람들은 하는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	417
	7.
■ INT DONE A H A1UG2 1=PIN RUN	418
INT DONE 8 H ALUM2 1-01 * TM11-22 1	419
THE DONE BY AND A HEAR ASSAULT WAS THE 1402 WITCH THIS PARK WAS TOOK ASSAULT FOR A STATE OF THE	419
INT DONG BOLES OF THE CONTROL OF TH	419
트리트 그는 그는 그는 그는 그는 그는 그를 하고 있어. [10] 회사 회생 하고 있어. 하는 점 회생 경향 하는 그 사실 경험하는 일로 아름답을 하는 것이다.	
- ● 사람들은 사람들이 나는 사람들이 가장 하는 사람들이 가장 하는 사람들이 얼마나 하는 사람들이 얼마나 하는 것이다.	
the first control that the computer for the control of the control	and the second section of

 $z_{\beta_{i}}^{\prime}$ 

3	•	TM11.T RUN NAME	A	HNDZBB.V2Z VU PIN NAME	ORDER	OG 773 BAY 4 ORDER	Q DRAW RV	PG Y X	Z REMARKS	LENGTH	EXCEPTIONS	PAGE 51 HUN HUNDER
· 		INT ENH INT ENH INT ENH INT ENH INT ENH		H A29D2 H A24L1 H BOBD1 H BOGE2		1=01 6 1=02 6 1=03 4 1=04 6	TH11=08 C TM11=03 TM11=12		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20=0/8	TERM HERET Cable Term Heret	420 420 420 420 420 420
	•	INT ENR INT ENR INT ENR INT ENR		L A3082 L A3081 L A24HI		1=01 * 1=02 * 1=03 * 1	TM11-11 TM11-11 TM11-06		1	8=0/8	, N.	421 421 421 421
	•	TO DATA BAL		L A13U2 L A1981		1=01 + 1=02 +	TH11-14 TH11-25			5-2/8		422 428 488
	•	LRC ENH LRC ENH LRC ENH		H 622R2 H 813E1		1-01 # 1-02 #		i		7+6/8	ieriai i	423 423 483
٠	PMENT	LRC ENH LRC ENH LRC ENH		և 82282 Ն 82181		1=01 # 1=02 #		I		3-0/8		424 424 424
		LRCE LRCE LRCE LRCE		A29R2 B04T2 B03T2			TH11-17 C TH11-02 C TH11-02			18-6/8	TERM HERE) CABLE CABLE	425 425 425 425
	0	LRCS LRCS LRCS LRCS		A0GN 1 H04U2 B03U2		1-01 # 1-02 # 1-03 #	TH11-08 C TH11-02 C TH11-02		2	9) <b>8-6/8</b>	TERM HERE? Cable Cable	426 426 426 426
	•	LRCS LRCS LRCS LRCS LRCS		H 815R2 H A32R2 H A32R1 H 821P1 H A06P1		1-01 # 1-02 # 1-03 # 1-04 # 1-05 #		R1 R1 R1 R1				427 427 427 427 427
	•	LRCS								34-4/8		427

• TM11		HND288.V	22(22) 11/06/7 Order bay		14 DE 4 1	X 2 DEMARKA	U-JUL-74 Length		GE 52 Kun
• LRCS		NAME H A22F2	PIN ORDE	R		A Section of Manager	ALCONOMICS OF THE SECOND SECON	N	UMBER
LRCS • LRCS LRCS	District English Lines.	H A16E2 H A22E2 H A2/J2	1-02 1-03		Ř1 R1 R1				120
LRCS LRCS LRCS LRCS	D D	H A27M2 H A32P1 H A25D2	1-05 1-06 1-07		Ri Ri		29-4/8		126 128 128
МАМ ИЛМ ИАК <b>⊕</b>	CLR	H A1GV2 H B15B1	1=01 1=02 1				3-4/0		129 129 129
MAM Ham Mam Man	CLR CLR	L A16U2 L BOOM L BO4VI		•	R1 R1		12-0/8		30 30 30 30
♥ NPR NPR	CLEAR BRSY CLEAR BBSY CLEAR BBSY	H A11P2 H A12A1 H A25J2		• Thises • Thises • Thises					31
C SS NPR NPR NPR	CLEAR BBSY CLEAR BBSY CLEAR BBSY CLEAR BBSY CLEAR BBSY	L A2961 L B2282 L g A11#2	1+01 1+02 1+03	* TH11-0	<b>.</b>		13-4/8		31 32 33 32
MPR MPR MPR MPR	ENB	H A10U1 H A10V1 H B14E1 H B19E2	1+01 3+02 1+03		R1 R3 R3				33 33 34 34
@ NPR	ena Ear	H A24PI H A22L2 H A19A1 H #27D2	1-05 1-06 1-07		R1 R1 R1		33-4/8		33 33 38 38
₩ NPR NPR NPR	ENA	L 814F1 L 814E2 L A19C1	1+01 1+02 1+03	•	R1 R1				14 (1) (1)
a MPR	ENH ENM	G 832A1	1-04		ai		10-6/8		
NPR	MASTER MASTER MASTER	L ATONI L ATTH2					3-2/8		15 15 15

TM11 RUN	NAME	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A/P	IND 288, V2 PIN NAME	2(22) 11/ ORDER PIN	BAY - URDER	Q	DRAW RV	PG Y	X	Z REMARKS	1-JUL-74 LENGTH	8151 EXCEPTIONS	PAGE 53 RUN NUMBER
				H	A2081 A24N1 B32S2		1-01 1-02 1-03		TM18-11 TM11-17 TM11-11				12-6/8		436 436 436 436
MXM MXM MXM MXM				н н н	B0881		1+01 1+02 1-03	· C	TM11=24 TM11=03 TM11=12			2	8-6/8	TERM HERE? CABLE TERM HERE?	437 437 437 437
MXM MXM MXM				ն Ն	A11KI B <b>29NI</b>		1-01 1-02	•	TH11-24 TH11-17				12-4/8		438 438 438
OFF OFF	LINE LINE LINE LINE LINE			L L L	A15F1 B30H1 B30B1 B29E1		1-01 1-02 1-03 1-04	)  -  -		RI RI RI I			17-2/8		439 439 439 439 439
DUT TUO TUO	H.L		**	H	A09M2 B11A1		1-01		TM11-21 TM11-26				4-2/8		440 440 440
OUT OUT OUT	LO			H	AU9N1 81101		1-01		TM11-21 TM11-26				4-4/8		941 441 441
OVER OVER	RFLOW RFLOW RFLOW RFLOW RFLOW			H H H	A2201 A24P2 B27U2 B19B1		1-01 ( 1-02 ( 1-03 ( 1-04 (	). N		R1 R1 I		•	17-6/8		442 442 442 442
OVER	RFLOW RFLOW RFLOW RFLOW	e a		և ն	A24R2 A20C1 A22L1	A22L1	1-01 ( 1-02 ( 1-03 (	,		R1 R1			9-0/8		443 443 443 443
PAE PAE PAE PAE				н н н	A28KI A08JI Bogni		1-01 ( 1-02 ( 1-03 (	H .		R1 R1 R1			19-2/8		444 444 444 444
PAE PAE PAE				L L	A17E1 A2801		1-01 (		TH11-17 TH11-17				8-0/8		445 445 445
	·							8.			Ž.				

	TM11. RUB B			A/P	HND288,V2 Pin Name	22(22) 11 ORDER PIN	1/06/73 - Bay - Order	4	DRAW RV P	GY XZ	REMARKS	B-JUL-74 LENGTH	8:51 EXCEPTIONS	PAGE 54 RUN NUMBER
, }	PAR F PAR F PAR F	TIE		# # H	A19D1 B31E1 B27H2		1=01 1=02 1=03	•				13-6/8		446 446 446 446
	PEVN PEVN PEVN				A03T2 A04T2 A06V2		1=01 1=02 1=03	* C	TH11=02 TH11=02 TH11=08	2		6-2/8	CABLE CABLE TERM HERE?	447 447 447
	PEVN PEVN PEVN			H H	A08H2 B06M2 B31V2		1=01 1=02 1=03	* C	TH11-13 TH11-03 TH11-06			21-2/8	TERM HERE? CABLE TERM HERE?	448 448 448
·	RD 0 RD 0 RD 0 RD 0				A05U2 B04F1 B03F1		1-01 1-02 1-03	# C	TM11-09 TM11-02 TM11+02	1 2		6-6/8	TERM HERE? CABLE CABLE	449 449 449 449
200	RD 1 RD 1 RD 1 RD 1				A0582 B04H1 B03H1		1=01 1=02 1=03	# C	TM11-09 TM11-02 TM11-02			7-2/8	TERM HERE? CABLE CABLE	450 450 450 450
	RD 2 RD 2 RD 2 RD 2				A05.41 B03J1		1+01 1-02 1-03	e C	TM11=09 TM11=02 TM11=02	1 2		6-6/8	TERM HEREY CABLE CABLE	451 451 451 451
	RD 3 RD 3 RD 3 RD 3				A05P2 B04K1 B03K1		1+01 1+02 1+03	# C	TM11-09 TM11-02 TM11-02			7-6/8	TERN HERE? CABLE CABLE	452 452 452
<b>3</b>	RD 4 RD 4 RD 4 RD 4				A05R1 804E1 803L1		1=01 1=02 1=03	# C	TH11-09 TH11-02 TH11-02			7-4/8	TERN HERE? Cable Cable	453 453 453 453
3	RD 5 RD 5 RD 5 RD 5				A0'5M2 B04M1 B03M1		1+01 1+02 1-03	# C	TM11-09 TM11-02 TM11-02	2			TERM HERE? Cable Cable	454 454 454 454

.

17

3

;

<b>*</b>	TM11.T RUN NAME	HND288.V2 A/P PIN NAME			Q DRAW RV	PG Y X	Z REMARKS	8-JUL-74 Length	8:51 EXCEPTIONS	PAGE 55 RUN Number
•	RD 6 RD 6 RD 6 RD 6	AOSNI BUANI BUANI		1-01 #	TM11-09 C TM11-02 C TM11-02		2	8=0/8	TERM HERE? Cable Cable	455 455 455 455
•	RD 7 RD 7 RD 7 RD 7	A05K2 B04P1 B03P1	l.	01 0 0-02 0 0-03 0	TM11-09 C TM11-02 C TM11-02		2	8-6/8	TERM HERE? Cable Cable	456 456 456 456
•	RDP RDP RDP RDP	A06L1 B04R1 B03R1	. 1	1-01 # 1-02 # (	TM11-09 C TM11-02 C TM11-02		1 2	8=6/8	TERM HERE? Cable Cable	457 457 457 457
•	RDS RDS RDS RDS	A00H2 B04A1 B03A1	1	8-01 # 8-02 # ( 6-03 # (	TH11-08 C TH11-02 C TH11-02		1 2	7=6/8	TERM HERE? Cable Cable	458 458 458 458
P W M M N T	RDS RDS	H A06J2	9	1=01 # 1=02 #	n geta de	R1 R1	1 2	· ', .		459 459

RI RI RI RI	DS DS	+ W									22-2/8	459
RI RI RI		+ W			H H	822J1 820E1	1-01 4		TM11-11 TM11-11	1	4-4/8	460 460 460
49	IDS IDS IDS	+ W	IRS IRS		<b>Ն</b> Ն	832P2 826D1 815V2	1-01 4 1-02 4 1-03 1	<b>#</b>	TM11-11 TM11-11 TM11-11	2 1	14-2/8	461 461 461 461
RI RI	EAD EAD EAD				H H H	A11C1 A11J2 A1/T2 B26D2	1-01 4 1-02 1 1-03 4 1-04 4	t t	TM11-24 TM11-24 TM11-11 TM11-15	1 2 1	16-4/8	462 462 462 462 462

9

0	TM11.T	нио	288,V22(22) 11	/06/73					8-JUL-74	8:51 PAGE 56
,	RUN NAME	A/P P		BAY - ORDER	0	DRAW RV PG Y	X	Z REMARKS	LENGTH	EXCEPTIONS RUN Number
Ç.					'. "	and the second of the second			11 12 12	
	READ	L	829E2	1-01 #		TM11-17		<b>1</b>		463
	READ	Ն	B26C1	1-02 #	4	TH11-11	4.00	2		463
0	READ	Ն	B19D2	1-03 4	• '			1		463
	READ		A22K2	1-04 #		TM11-15		2		463
	READ		AISHI	1-05 4		TM11-07		1	4	463
3	READ		BOSMI	1-06 #	6.5	TM11-07			1.0	463
	READ	-		1		****			29-6/8	463
				선물이 있는 것이	e tra		100			
্র	READ + WRITE	н	A22U2	1-01 #				2		464
	READ + WRITE		629F2	1-02 #				ī		464
	READ + WRITF	н	AZUR I	1-03 #						464
3.9	READ + WRITE	•		. <b>i</b> .		tyt i krisista til till j	- 1		14-2/8	464
				F						
	READ STB	н	A2681	1-01 *		TM11-15		1		465
13	READ STB		A22C1	1-02 #		TM11-17	1	2		465
-	READ STB		A1681	1-03 #		TM11-15		1		465
	READ STB		BIGHT	1-04 #		TM11-11		2		465
3	READ STB		81572	1-05 #		TM11-11	No.	· T		465
-	READ STB			1					19-0/8	465
				- <del>-</del>						
(a) 1	READ STB	Į,	B14H2	1-01 #		TM11-15		2		466
- 1	READ STB		B16F1	1-02 *		TM11-11		ī	* 2	466
- 5	READ STB	L	A17V1	I +03 *		TM11-11		2	And the second second	466
<b>3</b> ,00	READ STB	L	BIBBI	1-04 #		TM11=15	us.	1	And the second second	466
			B29Pt	1-05 #		TM11-25				466
3	READ STB			1	٠.				18-4/8	466
di lo lista	***	~	11 4 11 W F 11			in the second of the second				
	REV		A03N2 .	1:01 *	С	TM11-02		2	and the second	CABLE 467
-	REV		A04N2	1-02 #	C	TM11-02		1		CABLE 467
<b>&amp;</b> '	REV	1.00	B05L1	1-03 *		TH11-07				TERM HERE? 467
	REV			<i>1</i>	4,				7-6/8	461
		े हैं		, , , , , , , , , , , , , , , , , , ,	100					The state of the s
€:	REV BOT	L,	A17D2	1-01 #	*	R1		2		468
	REV BOT		B32R1	1-02 #		R1		1		468
	REV BOT	lo '	B32N2	1#03 #		R1				468
€1	REV BOT			1					14-0/8	468
	REWIND	ւ Մ	ALSPI	1.01 #	4.5	R1		2		469
<b>43</b> 1	REMIND	Ĺ	A17L2	1-02 *		R1		1		469
	REWIND	<b>i</b>	A29H2	1.403 #		R1		2		469
	REWIND	ե	BBUFI	I #04 ₩		R1				469
€1	REWIND			1 .					17-6/8	469
		5 2 6 5								
	RLE		A28H2	1901 *	1	TM11=17		<b>1</b>		TERM HEREZ 470
€Z)	RLE	H	A08M2	1.402 #	С	TM11-03		2		CABLE 470
	RLE	H	BOOFI	1-03 *		TM11-13				TERM HERE? 470
	RLE	14	The second secon	1	5.25	en lager and lager co		Alberta de la companya del companya de la companya	17-4/8	470

TM11.T Run name	HND288,V27(22) A/P PIN ORDER NAME PIN		V PG Y X Z REMARKS	L-74 8:51 LENGTH EXCEPTIONS	PAGE 57 RUN NUMBER
RLE RLE RLE RLE	L A1781 L A17A1 L A28J2	1-01 + 1-02 + 1-03 +	81 81 2	11-0/8	471 471 471 471
RND RND RND RND	A0361 A0461 B3061	1-01 * C TH11-0 1-02 * C TH11-0 1-03 * TH11-0		CABLE CABLE TERM HERE? 19-2/8	472 472 472 473 472
RWS RWS RWS RWS	A05L1 B04F2 B03F2	1-01 # TM11-0 1-02 # C TM11-0 1-03 # C TM11-0		TERM HERE? CABLE CABLE 7-4/8	473 473 473 473
RWS RWS RWS RWS RWS	H A75L2 H B32D1 H B2GU2 H B0GP1 H A05M1	1-01 # 1-02 # 1-03 # 1-04 # 1-05 #	R1 1 R1 2 R1 1 R1 2		474 474 474 474 474
RWS RWS RWS RWS	H B08M2 L B26V2 L B31K1	1-06 # 1 1-01 # TM11-0 1-02 # TM11-0		36-4/8	474 474 475 475
RWS SAME TU SAME TU SAME TU	6 81861 6 81502	1 -01 # 1 -02 #		5=0/8 4=0/8	476 476 476 476
SDWN SDWN SDWN SDWN	A05J1 B04B1 B03B1	1-01 # TM11-0 1-02 # C TM11-0 1-03 * TM11-0	2 2	TERM HERE? CABLE CABLE 7-2/8	477 477 477 477 477
SDWN SDWN SDWN SDWN	H A05K1 H B06K2 H B08J2 H B19H1	1-01 # TN11-0 1-02 # C TN11-0 1-03 # TM11-1 1-04 # TM11-0		TERM HERE? Cable	478 478 478 478 478
SOWN	H B2652 H A27H1	1-05 # TM41-0 1-06 # TM11-0	8	TERM HERE?	478 478 478 478

•											
اقع ر											
	TMIL.T RUN NAME	HND288,V2 A/P PIN NAME	2(22) 11/06/73 ORDER BAY - PIN ORDER		DRAW RV	PG Y X	Z REN	ARKS	8-JUL-74 LENGTH	8:51 EXCEPTIONS	PAGE 58 RUN
	SDWN	G A1761	1-01	•		R1	1				NUMBER
•	SDWN SDWN SDWN	L B26T2 L A29L2	1-02 1-03			R1 R1	2		15-0/8		479 479 479
•	SEL O SEL O	A03A1	1-01 1-02		TM11-02 TM11-02		2			CABLE CABLE	480 480
)	SEL 0 SEL 0	B05V2	1-03						10-2/8	TERM HERET	480 480
Þ	SEL 1	A0481	1-01 1-02	# C	TM11-02 TM11-02		2 1			CABLE CABLE	481 481
	SEL 1 SEL 1	805P2	1-03		TH11-10				9-4/8	TERM HERE?	481 481
	SEL 1 IN SEL 1 IN SEL 1 IN	6 A08U2 6 B11J2 5 B08U2	1=01 1=02 1=03	*	in Angelein (1945) Tananan katalon	R1 R1	2 1				482 482
	SEL 1 IN					RI			9+2/8		482 482
DIPNEN PORATIO	SEL 1 OUT SEL 1 OUT SEL 1 OUT	L A27L1 L A27E2 L B15F1	1=01 1=02 1=03	*		R1 R1 R1	2 1				483 483 483
	SEL 1 OUT SEL 1 OUT HI	H B11U1	1-01-						12-6/8		463
, 10	SEL 1 OUT HI SEL 1 OUT HI	H B15E1 H A14U2	1-02 1-03	*		R1 R1 R1	1 2 1			។ ប្រជាជាក្រុម ព្រះបាន	484 484
•	SEL 1 OUT HI SEL 1 OUT HI SEL 1 OUT HI	H A14N1 H A16R2 H A1482	A16R2 1=04 1=05 1=06	<b>♦</b> ***		R1 	2 1				484 484 484
•	SEL 1 OUT HI SEL 1 OUT HI SEL 1 OUT HI	H B18H1 H A24B1 H A24D2	1+07 1+08 1+09	<b></b>	or the state of	R1 R1	. i 2			n de la companya de La companya de la co	484
3	SEL 1 OUT HI SEL 1 OUT HI	H B3182	1+10	*		R1 R1	1		42-0/8		484 484 484
: 3	SEL 1 OUT LO SEL 1 OUT LO	H B11N1,	1+01 1+02			R1 R1					485 485
	SEL 1 OUT LO SEL 1 OUT LO SEL 1 OUT LO	H B18D2 H A14H1 H A14D2	,1 →03 1 =04	<b>*</b>		R1 R1	ī 2				485 485
	SEL 1 OUT LO SEL 1 OUT LO	H A1481 H A24H1	1-05 1-06 1-07	<b>♦</b>		R1 R1 R1	1 2 1				485 485 485
Þ	SEL 1 OUT LO SEL 1 OUT LO	H 621H2	1-08	*		R1			33-4/8		485 485
3											

76		TM11.T RUN NAME	HAME PTN C	06/73 Bay – Q draw Ry Urder	PG Y X Z REMARKS	8-JUL-74 Length	8151 PAGE 59 EXCEPTIONS RUN NUMBER
	**	SEL 2 SEL 2 SEL 2 SEL 2	A04C1 B05J2	1+01 * C TM11+02 1+02 * C TM11+02 1+03 * TM11-10	into a graffino de pro-	8-6/8	CABLE 486 CABLE 486 TERM HERE? 486 486
		SEL 2 IN SEL 2 IN SEL 2 IN	L B12T2	1-01 * TM11-26 1-02 * TM11-19	$c_{ij} = c_{ij} + c_{ij}$	3-4/8	487 487 487
		SEL 2 OUT HI SEL 2 OUT HI SEL 2 OUT HI	H B21D1	1-01 # 1-02 # 1	R1 1 R1	8-0/8	488 488 488
	•	SEL 2 OUT LO SEL 2 OUT LO SEL 2 OUT LO	H B21A1	1=01 # 1=02 #	R1 1	7-6/8	489 489 489
		SEL 3 IN SEL 3 IN SEL 3 IN	L BiiFi	1-01 * TM11-18 1-02 * TM11-26		5-6/8	490 490 490
	, <u>e</u>	SEL 3 OUT HI SEL 3 OUT HI	H B21H1	1=01 # 1-02 # 1	R1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7=6/8	491 491 491
		SEL 3 OUT LO SEL 3 OUT LO SEL 3 OUT LO	н в2102	1=01 # 1=02 # 1	R1 1	8-0/8	492 492 492
	4	SEL 4 IN SEL 4 IN SEL 4 IN SEL 4 IN SEL 4 IN SEL 4 IN	H A19KI H A19PI H A19RI H A23V2	1-01 * TN11-25 1-02 * TM11-25 1-03 * TM11-25 1-04 * TM11-25 1-05 * TM11-25	2 1	12-4/8	493 493 493 493 493
	9	SEL 4 IN SEL 4 IN SFL 4 IN	L A23U2 L B11E1	1-01 + TH11-25 1-02 + TH11-26		9-2/8	494 494 494
	9	SEL 4 OUT HI SEL 4 OUT HI SEL 4 OUT HI	H A23P2	i-01 # i-02 #	R1 1 R1	9=6/8	495 495 495
	•	SEL 4 OUT H1 SEL 4 OUT H1 SEL 4 OUT H1		1-01 # 1-02 #	R1 1 1 R1	6-2/8	496 496 496
	*						
	40						
	3						
	i de la companya de l						
	о <sub>.</sub> 9	TM11.T RUN NAME	NAME PIN	BAY - Q DRAW RV URDER	PG Y X Z REMARKS	8-JUL-74 Length	BIST PAGE 60 EXCEPTIONS RUN NUMBER
	¢.	SEL 4 OUT LO SEL 4 OUT LO SEL 4 OUT LO	H Biiji	1=01 # 1=02 #	R1 1 1	7-4/8	497 497 497
	<b>3</b>	SEL 5 IN SEL 5 IN SEL 5 IN SEL 5 IN	L A13V2	1-01 * TM11-14 1-02 * TM11-14 1-03 * TM11-26		9-0/8	498 498 498 498
	0	SEL S OUT HI SEL S OUT HI SEL S OUT HI SEL S OUT HI	H B22M2 H B21P2	1=01 # 1=02 # i=03 #	R1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44-240	499 499 499
	10)	SEL 5 OUT LU	H BIIKI	1 TM11-26		11-0/8	499 1-PIN RUN 500
	4,44 ·	SEL O IN SEL O OUT HI	L B11F2	TM11-26 TM11-26			1-PIN RUN 501 1-PIN RUN 502
	AFE NT	SFL 0 OUT LO	H B11M2	. TH11-26	그림에 가장된 그는 물로 살아 한다.		1-P1N RUN 503
	E GUIPW	SEL 7 IN	L B11D2	TM11-26			1-PIN RUN 504
	3 9-11 e	SEL 7 OUT HI SEL 7 OUT LO	H, B11P2 H B11L2	TM11=26			1-PIN RUN 505 1-PIN RUN 506
	*1	SEL STATUS IN SEL STATUS IN	L ADSV2	1+01 # TM11-12 1+02 # TM11-13	1		507 507
		SEL STATUS IN SEL STATUS IN	L B11H2	1+03 • TH11-26		9-2/8	507 507
	<b>.</b>	SEL STATUS OUT HI	H BIIRI	TM11-26			1-PIN RUN 508
	194	SEL STATUS OUT LO		TH11=26	1		1-PIN RUN 509 TERM HERE? 510
	69	SELR SELR SELR		1-02 # C TM11-02 1-03 # C TM11-02			CABLE 510 CABLE 510 510
		in the second of	in in general de versiones de la versión de	in the material and the second se	i de la companya de suma de alta en em esta en esta en esta en el companya de la companya de la companya de la La companya de la co	een maaneel to sekkaele kaale tiid kaale kaale t	■ Sector * Accordance to the sector of t

	TM11 RUN		4E				A	1/6	P			RDI	ER	В	AY	-	Q	DR	٨W	HV	PG	Y	X		z	RE	MAR	KS		8-J		-74 :ENG1	ГН	EXC		IONR	AGE (	
						<u>.</u>		r jes	N	AHE		PI	N	U	RDE	R								<i>)</i> -					4.7					, .		tar t	VUMBI	EH
	SEL!	R .						H H	er North	AOSE:	1			• 1	-01 -02	.# -	, /			:	R1				1 2				No.	: 1							511 511	
-	SELI SELI SELI	R						H		808E  816D  822R	l i			1	-03 -04 -05	#			٠.		R1 R1				1 2												511 511 511	
	SEL! SEL!	R R	* *** ***					H		A22P1 A29T2	l	seri Ser	12	1	-06 -07	# 1	34				R1		*.		2				ξ 		<b></b>	0-0/	'A				511 511 511	
i	SELI	R			9-			L		B29D				1	-01						1			1.	2			· /· ·				V07	•	•			 512	*** ',
•	SELI SELI	R					•	ı		A25M1 A25M2 A27R1	} 			j	→0;; =03 =04	*					I I R1				1 2 1												 512 512 512	
•	SELI SELI	R				D 1 *		i.		A27R: B16E					<b>-</b> 05 <b>-</b> 06						. I R1		1.34		2	4				. \$	2	2=6/	8				512 512 512	
	SET									AO3R2	,				-01	<b>.</b>	С	TM	11-	0.2		٠,			2 .									CABI	L.W	÷ .,	513	
+ Z	SET SET						2.5		~	A04R2 B05E1	<b>?</b>	82	8D2	1	-02 -03	#	č	TM	11-	02	13				1 2	:	٠.							CAB	LE	EREY	513 513 513	
CORPORATION	SET									172007	•	f -		i		*											,				2	1-0/		166	, ,,	CRES	513	
0.1 G 1.1 G COR	SET SET SET	BR						ե Ե		A 30R					=01 =02		1	va Vil				-			1		• .		,	4.		4-0/	8				514 514 514	
0.0	SET SET	CU	R	•				L Ti		A18N:	?			1	-01 -02	*					1		:		2					٠							515 515	
	set set					, , ,		L		B15N	2		***	1	<b>+0</b> .3	*					I		. •									8-0/	8				515 515	in de la del La della br>La della
	SET SET SET	14	C					H H		A24T2 A22U B16J	i y				-01 -02 -03	#		TM	11- 11-	16			·		2 1			• •									516 516 516	
	SET									.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		. 3. 		i						. :								٠,.				9-6/	8		• • •	Ţš.	516	
	SET SET	14	T					L		839N					+01 -02										1				1			4-0/	8				517 517 517	
	SLC	T 1	001	ro				H		B26M A21K	5			. 1	+01 +02	#					I				1 2						٠٠.			81. F.			518 518	
			001		٠.			H		A1 /R:	2			1	<b>-03</b>	*		4:	44. .)	•	I			i.		**					1	0-6/	8				51 <b>8</b> 518	2

4	TMILT RUN NAME	A/P		2(22) 11/ ORDER PIN	BAY - ORDER	Q DRAW RV	PG Y	, <b>X</b>	Z REMARKS	8-jul-74 Length	8:51 EXCEPTIONS	PAGE 62 RUN Number	
4		100					100	in the second					
-	SLCT 1 OUT LO	L	B21K2	i e e e e	1-01		T		9			519	1
	SLCT 1 OUT LO	ī	822B1	100	1-02 +		•					519	11
3	SLCT 1 OUT LO	ī.	02061		1-03 #		•		<ul> <li>A section of a finite party</li> </ul>	and the second second		519	4. 9
•	SLCT 1 OUT LO	•	1720111	100	1-03		•			8-2/8		519	
	oner I dor no		r .	Street Con						0-4/0		313	
.9	SLCT 2 OUT HI	Ĺ.	B1281	er in Arma	1-01 #							520	
	SLCT 2 OUT HI	L	B21F1		1-02 #		-					520	
	SLCT 2 OUT HI		DETFT	A 100	1					7-4/8		520	
0	0001 2 001 111						7.38 XVII.	A T		/**/0		324	. i.
•	SLCT 2 OUT LO	L	A12E2	•	1-01 *					the second second		521	
	SLCT 2 OUT LO	ı.	B21C1		1-02 #					3 T			- 1,
(3)	SLCT 2 OUT LO		DZICI		1		4	100			18 July 18 18 18 18 18 18 18 18 18 18 18 18 18	521	
	ODC1 2 001 00	2.7					4.0			7=6/8		521	
	SLCT 3 OUT HE	1.	B12R1		1-01 .							800	
4	SLCT 3 OUT HI	Ľ	B21KI	f	1-02 #		19 📮 Tar	. 12 1	<ul> <li>Control of persons and persons</li> </ul>			522	•
7/	SLCT 3 OUT HI		DZINI		1-02 =					2.040		522	
	SUCT 3 OUT 41	100			•		6 de 10 de			7-0/8		522	
Ŧ	SLCT 3 OUT LO	T.	B12V2	284 534	1-01 #	war en gran en af i			n e ballia i i e i i i	And the second state of		523	
-	SLCT 3 OUT LO	Ĺ	B21F2		1-02		. I						
	SLCT 3 OUT LO		174114		1					7-110		523	
を見る		<ul><li>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</li></ul>	Ethiope Berlin	to the second	5 <b>4</b>					7-4/8	All selections are	523	Ž.
			ALGEL		1-01 #					5°		504	
- P 4	SLCT 4 OUT LO	ı.	A2UK1		1-02 #		•					524	
₩ 20 20 20 20 20 20 20 20 20 20 20 20 20 2		. L	A20J1	1.35 17 2.5	1-03 *				المراجع والمتحاجب المتحاجب	The Armer Control	and the second	524	
- 10	SLCT 4 OUT LO	L			1=04 #							524	
- 5	SLCT 4 OUT LO		B21N1		1		, <b>4</b>			40-440		524	,
o I	2001 4 001 UC	1.00					8 May 18	100	en en trett a frage	12=6/8		524	
""	SPACE	н	A22D2		1-01 #	mu44-04	100					***	
•	SPACE	H	B26A1		1-02 #					Section 1		525	
eg.	SPACE	H	81962	Arthurson	1=03 #					Marie Carlos de Carlos	Annual Control of	525	
	SPACE	H	BISHI				, in the second					525	
	SPACE	H	AIGRI		1-04 4		1.4.4					525	9
6	SPACE		wholer		1	Y		1. W	garden a Marketare	10-4/9		525	٠,
-		4 1			•					19-6/8		525	
	SPACE	L	A16D2		1-01 #	TM11-06		4		*		526	
<b>a</b>	SPACE	ĭ	82681	4.5	1-02		1 No.		la de porte parte de la compa		145 July 1	526	
	SPACE	•	t		1 702		4			8-2/8		526	٠.
					4					0-4/0		360	
O	SPACE FWD	L	A1561	4.	1-01 #			- / · · · · · · · · · · · · · · · · · ·	. 1899 (244 - 1872) Di	and the state of the state of		527	
_	SPACE FWD	i.	81961	•	1-02 #		4.0	. 1	•			527	
	SPACE FWD	ī.	BOSNI		1-03 *		5000				•	527	
vi a	SPACE FWD	-		er english	1	*M*1*V/		1.5	and the second	15=4/8		527	
•		100								13-4/0		367	
	SPACE REV	H	A29J1		1-01 #	9		2				528	
7	SPACE REV	H	B16D2		1-02 #		R1	- 4			A 1	528	
•	SPACE REV	н .	B31M2		1-03 #	and the second s	R1	•	age of the second			528	
	SPACE REV		0.1116		1		17.1	-		19-4/8		528	
(T)			Acres de la constante de la co	and the particular particular particular particular particular particular particular particular particular par		State Same	15	process of	And the second of the	17-4/0		320	
			age 15 of the S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The same of		2 T	100	and the second second			1.	

•i"	TM11.T RUN NAME	۸/	HNU28H.V22(22) P PIN URDE NAME PII	11/06/73 R BAY -	۵	DRAW RV PG	y x	Z REMARKS	8-JUL-74 LENGTH	8:51 EXCEPTIONS	PAGE 63 RUN NUMBER
•	SPACE REV SPACE REV SPACE REV SPACE REV	ն ն ն	A1581 A17K2 B19M1	1-01 1-02 1-03 1-04	() )} *	I R R	1 1	1 2 1 2			529 529 529 529
•••	SPACE REV SPACE REV SPACE REV	ն <b>Ն</b>	810C1 805F1 A11A1	1-05 1-06 1	•	R R			31=6/8		529 529 529 530
•	SSYN SSYN BSYN	H H	B10F2 A0682	1-02		R	i		11-0/8		530 530 530
•	SSYN SSYN SSYN INH	L L	A10C1 A06T2 826L2	1-01 1-02 1				tara da kabupatèn Kabupatèn Ranggali dakan babar	4-6/8		531 531 531 532
SOUL PARENT	SSYN INH	Н Н Н Н	82164 82161 82162 821J1 821J2 821J2	1-02 1-03 1-04 1-05 1-06 1-07		1 1 1 1 1		2 2 1 2			532 532 532 532 532 532
	SSYN INH SSYN INH SSYN INH SSYN INH SSYN INH	<b>և</b> Մ	A0981 826K2 B11 B11V2	1-01 V2 1-02 1-03	H	<b>R</b> 1			19=0/8 22=6/8		533 533 533 533
110	START XFER TIMING TIMER TIMER	<b>6</b> Н Н	811H1 #13B1 #31S1	1-01		TH11-26 TH11-14 TH11-05				1-PIN RUN	534 535 535
9	TIMER TUR TUR TUR TUR TUR		803C1 H04C1 A06P2	1-01 1-02 1-03		R R R	1		12-0/8 7-2/8		535 536 536 536 536

	TM11.					HND288.V2								*	8-JUL-74	8:51	PAGE 64
	RUN I	NAME	•	•	A/P	PIN NAME	URDER	BAY - URDER		DRAW R	V PG	Y X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN
			44.14					a* -	200			100	100				
	TUR				H	B3281		1-01 4		100	R1	4000	2				537
	TUR	an diame		4	н	A23J1		1902									
	TUR						The second			10 10			· 1		fredsky filmsky film		537
			. 1		H	AOGR2		1-03			. R1		2				537
5	TUR		11.5		Н	B06R1		1-04 #		1.0	RI		· · 1 -		, the second		537
	TUR	·.			: н	BORRI		1-05 #			RI		55 4 . 3			and the second second	53/
!	TUR		100				200	1	4 - 74 /	3 - 50 - 7 1 - 20	W 10.1				27-4/8	Tour and the second	537
		4.0	+ 2		100	7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1. O			79					
	TUR	4 4	11		և	A2561	La exilit	1-01		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				经收款 医脊髓病			538
,	TUR		31111		ī.	A23K1	Maria de	1-02			R1		2	r Mgallada (j. 1944 a shifasi	二种 网络龙鼠科 连		
	TUR									1.0	RI						538
			. ***		L	A L 7M L		1-03	,		R1					e grand in the	538
	TUR							1				1.15			9-0/8		538
			., ,					3.7	100		74*	A					1. 3.1
	UNIT	SEL	BIT	0	H	11811		1-01-1	<b>.</b>		R1	in the second	2				539
	UNIT	SEL	BIT	0	" н	A14V2		1-02					. 5	Andrew State (1987)			539
		SEL			H	ноон		8-03		م بنزون	ŘÍ		2		the first of the second		
		SEL			н.	19804	73.5	1-04					. 4				539
		SEL				1615 1615 1			, .		R1						539
	ONII	31.0	DII	U				1					1.4		16-6/8		539
,									100		*.	1-1-1	. 1.3. 1.				
		SEL			H	A18E2	1.0	1-01	•	19. july 19.	R1		1				540
F 2	UNIT	SEL	BIT	1	Н	A1461	1. The second	1-02	, `		RI	41 m	, . 2 .	백이다 하는 없었			540
ΖŌ	UNIT	SEL	BIT	1	H	A0812		1-03 4			RI						
¥ \$	UNIT	SEL	BIT	1	н		11.0	1-04			K1		•				540
AROUA	TIMIT	SEL				0.00112		1		100		- 64					540
100	01421	0.20		•		g.#		r ga 🍢 wag sir				1.0	44, 11		15-6/8		540
_		0.114				•	a di tining	The second second				1.7	. • • •	食 医乳腺性乳腺溶液症			
3		SEL			н	A18C1	d.	1-01 4			. R1		2	al residency to be a fair	7.5		541
		SEL			н	A14P2		1-02 *	)		RI		1				541
: 8	UNIT	SEL	BIT	2	н	13808		1-03 4	,		R1	1.7	2			47.7 11.1	541
a	UNIT	SEL	BIT	2	• н	806F2	4.00	1-04			RÍ		. 7				
9		SEL					5	1		Table 1988		4.		Land of Land	40. 440		541
3				_		100		35	المواد المراد	وكالما الموامواة	A 400,000	e we state			15-4/8	- 1 A	541
	HMTM									1 ( Paris ) 1 ( Pa	170 23		y 12 (4 de)				
		SEL			H			1-01		يرفي وا	· I-	33.57	1				542
		SEL			Н	A19E2		1-02 4	) ( ) ( ) ( )		**** <b>!</b>	7					542
3	UNIT	SEL	RIL	IM O				1							3-2/8		542
										100							
	UNIT	SEL	BIT	TM O	L	80502		1-01 4			1	1.1					543
3	UNIT	SEL	BIT '	TH U		AISHI	57.5	1-02			· i		,				
		SEL			ī	A19H2	25.79	1-03 #					19 7 T				543
		SEL				****						3 8	and the second				543
	017.5.1		J	V		100000	1.0		1, 1		1.00	$G(M_{i})^{*}$ .			12-4/8	Service programs	543
										1. A. A. A.			· _ · · · ·	the first of the second	* *	e en la companya de	
		SEL			н	A18H2	2.0	1-01 #		4 1 1	1		1. 1		the second second		544
	UNIT	SEL	BIT	TM (	н	A1962		1-02 4			1						544
	UNIT	SEL	BIT	TM I	,		医抗性病毒	1			·		7		3-2/6	Strategic Strategic	544
					11	4 10		7			9	W/JE	100				344
	UNIT	SEL	BIT	TM 1	L			1-01									
		SEL									ı		1		不知 自己 解,如何会对	Aller Committee Committee	545
•					Ĺ	A18J2	11.1	1-02 #			. 1		2 -				545
				rm i	ւ և	V1 2 N5	. 4. 1	1-03 #	Ç 4	1 2 1 4 1 <sup>2</sup>	1	100	100			and the second	545
	UNIT	SEL	BIT :	CM (			23	1			100		100		13-2/8	A 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	545
	100			100	1.0					ne e la nació	100	67					
		age of the		3			7 y - 1				医神经节					1.4	
	٠.			74 g (* 14)				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the distribution of		a. 14'	100		ana. Lagra en en ar in la lagra de la l	STATE OF THE STATE	

EL ( EL ( EL (	SIT 1	rm 2 rm 2 rm 2 rm 2 rm 2 rm 2		H H L L	A18E1 A1982 B05R2 A18F1 A19U2 A29P2 B04M2 B03M2		1+01 1-02 1 1-01 1-03 1 1-01 1-02 1-03	# # # # # # # # # # # # # # # # # # #		1 1 1 1		1 2 1		4-0/8 14-2/8	TERM HEKEY	546 546 546 547 547 547 547
EL (	SIT T	TM 2 TM 2 TM 2		L	A18F1 A19U2 A29P2 B04M2		1-01 1-02 1-03 1	*		-17		2			TERM HERE?	547 547 547 547 547
er i	IT :	TH 2		L	A18F1 A19U2 A29P2 B04M2		1-02 1-03 1 1-01 1-02	*		-17		2		14+2/8	TERM HERE?	547 547 547 548
EL (	II.	TM 2			A19U2 A29P2 B04M2		1-03 1 1-01 1-02	*		-17				14+2/8	TERM HEKE?	547 547 548
					A29P2 B04M2		1-01 1-02	*		-17		1		14-2/8	TERM HERE?	547 548
					B04M2		1-02					1		14-2/0	TERM HERE?	548
					B04M2	in in the second	1-02					1			TERM HERE?	
						Marke S.		* ^	77 24 4							
			1 1		003M4					-02		2			CABLE	548
		46	1 -				1	•	1.01	+02		•		18-6/8	CABLE	548 548
							- The Section 19	A				٠.		10 070		249
					A0 102	-	1=01			-02		2			CABLE	549
			;; s	4.00	A0402		1-02			-02 -09		1			CABLE Term Here?	549 549
		4.5		100	40031		1	•		-07				6-6/8	TERM DEVEL	549
								1.75		1 1 1						-
															CABLE	550
											1.	1				550 550
						100	1							6-4/8	TOWN HOUSE	550
*					441.1						F 10 1					
			100													551 551
					AUGKI											551
							1							6-0/8	_	551
					AA 249		1-01			-00					04075	
						18 J. March						1				552 552
					AUGF2		1-03								TERM HERE?	552
					•		1	100		. ,				6-2/8		552
					A0 4.12		1-01	<u>.</u> -	TMI	-42		9			CABLE	553
					A04J2						14 14 1	î	the state of the	· ·	CABLE	553
					A0681			#	TMI	-09					TERM HERE?	553
		4. 1		٠.		·	1 .				200			5=6/8		553
					A03K2		1-01	* · C	TM1	-02		2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CABLE	554
					A04K2		1-02	# C	TMI	-02	2.5	ĩ		32 - 1	CABLE	554
					AOGEL		1-03	*	TH1	-09		100			TERM HERE?	554
				. 1		195,83	1.5							6-0/8		554
						A03H2 A04H2 A06F2 A04J2 A04J2 A06H1	A04E2 A00N2 A03F2 A04F2 A06K1 A03H2 A04H2 A04F2 A04F2 A04H2 A04F2 A06H1	A04E2 1-02 A04N2 1-03 1  A03F2 1-01 A04F2 1-02 A06K1 1-03 1  A03H2 1-01 A04H2 1-02 A06F2 1-03 1  A04J2 1-01 A04J2 1-02 A06H1 1-03 1  A03K2 1-01 A04K2 1-02	A04E2 1=02 # C A06N2 1=03 #  1  A03F2 1=01 # C A04F2 1=02 # C A06K1 1=03 #  A03H2 1=01 # C A04H2 1=02 # C A06F2 1=03 #  A04J2 1=02 # C A04J2 1=02 # C A04J2 1=02 # C A04J2 1=03 #  A04J2 1=03 #  A04J2 1=02 # C A04J2 1=02 # C A04J2 1=02 # C A04J2 1=02 # C	A04E2 1-02 * C TM11 A06N2 1-03 * TM11  A03F2 1-01 * C TM11 A04F2 1-02 * C TM11 A04F2 1-03 * TM11  A03H2 1-01 * C TM11 A04H2 1-02 * C TM11 A04H2 1-03 * TM11 A04H2 1-03 * TM11 A04H2 1-03 * TM11 A04H2 1-03 * TM11 A04H2 1-02 * C TM11 A04H2 1-03 * TM11 A04H2 1-03 * TM11 A04H2 1-03 * TM11	A04E2	A04E2	A04E2	A04E2	A04E2	A04E2 1-02 # C TM11-02 1 CABLE TERM HEREY  A06N2 1-03 # TM11-09

RUN HAME  AND NAME  PIN NA		
RUN FAME    APP   PIN   ORDER   ARY   O DRAW RY PG Y X Z MEMARKS   LENGTH   EXCEPTIONS   NUMBER   NUMB		
RUN   AAME   AAME   RAY   BAY   BA	기가 그 그 씨는 그런 그는 것이 그 그 전에 가는 기가 되었다. 그는 이번 그는 것이 되었다.	
RUN   AAME   AAME   RAY   BAY   BA		
NAME	"我们是一切要打'我',我们看到了一个身体,只有心脏的一个人,我们是一个一样的,我们也不会不好,一个一个一	
NAME		
RUN PAME		
RUN PAME		
NAME	그는 그 사람들은 물 그 그는 모든 방에 하는 그 때에 가난다. 지원에는 기울을 하는 것 같아.	ř.
NAME		
RUN PAME	그 생생님 그는 사람들은 사람들이 고급하는 것이다. 사람들이 모든 경험이 하는 유민이는 그 살이 되었다.	
NAME		
RUN PAME	人名英格兰姓氏 医二甲基甲基氏 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
RUN PAME		
RUN PAME		
RUN PAME	医三角性 医多种性性 医二种 医二种 医二种毒素 医二种 化二甲基甲基酚 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	123
RUN FAME    A/P   PIN   OIDER   AAV   O DRAW RV PG Y X Z NEMARKS   LENGTH   EXCEPTIONS   NUMBER   PIN   OIDER   PIN   OIDER   NUMBER   PIN   OIDER   PIN   PIN   OIDER   OIDER   PIN   OIDER   PIN   OIDER   PIN   OIDER   PIN   OIDER   OIDER   PIN   OIDER   PIN   OIDER   PIN   OIDER   PIN   OIDER   OIDER   PIN   OIDER   PIN   OIDER   PIN   OIDER   PIN   OIDER   O	NO 122723 1470773	PAGE 66
NAME		
ND   O		NUMBER
MD U ANGUZ 1-01 * THI1-02 I CABLE 55 MD U ANGUZ 1-01 * THI1-02 2 C THI1-02 I CABLE 55 MD U I TERM HERE? 55 MD 7 ANGUZ 1-01 * C THI1-02 1 CABLE 55 MD 7 ANGUZ 1-02 * THI1-09 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-09 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-09 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-09 I CABLE 55 MD 7 ANGUZ 1-01 * THI1-02 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-02 I CABLE 55 MD 7 ANGUZ 1-01 * THI1-02 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-02 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-02 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I CABLE 55 MD 7 ANGUZ 1-03 * THI1-07 I MD 7 ANGUZ 1-03 * THI1-		., 01, 00.
## C	03L2 1=01 # C TN11=02 2 CABLE	555
## No U		555
MD 7	06D2 1-03 # TM11+09 TERM H	RE? 555
NO 7	(a) (a) Property of the second of the control o	555
NO 7	그는 함께 다 살아보는 그 그 그는 그는 그들은 그는 물리에 가는 그 일을 하는 것이다.	
ND 7		556
ND 7  ND R		556
WOR   A0452   1-01 * R1   2   55		
WDR	6-4/8	220
MDR	(18C) 1-01 x	557
WOR         B19V2         1=03 *         R1         14=0/8         55           MFMK         A0 1U2         1=01 *         C TM11=02         2         CABLE 55         55           MFMK         A0 4U2         1=02 *         C TM11=02         1         CABLE 55         MFK         MFK         B3UP2         1=03 *         TM11=07         1         CABLE 55         MFK         MFK         B4UE         1         CABLE 55         CABLE 5		
WFMK		557
WFMK		557
WFMK		
WFMK MFMK         B30P2         1-03 * TM11-07         TERN HERET         55           MRE MRE         A03MI         1-01 * C TM11-02         2         CABLE         55           MRE MRE         A04MI         1-02 * C TM11-02         1         CABLE         55           MRE         B30EI         1-03 * TM11-07         19-0/8         1         TERM HERET         55           MRITE         L A15JI         1-01 * TM11-07         2         TERM HERET         55           MRITE         L A15JI         1-01 * TM11-11         1         56         55           MRITE         L A22N2         1-03 * TM11-07         2         8-6/8         56           MRITE ENB         H A278I         1-01 * TM11-07         1         8-6/8         56           MRITE ENB         H A228I         1-03 * TM11-07         1         1-2/8         56           MRITE ENB         H B20RI         1-03 * TM11-07         1         1-2/8         56           MRITE ENB         L B0'SPI         1-01 * TM11-07         1         1-2/8         56           MRITE ENB         L B0'SRI         1-02 * TM11-07         1         56         56           MRITE ENB         L B0'SRI		558
NFMK     1		558 .
WRE   A03M    1-01 * C TM11-02   2   CABLE   55		
WRE WRE A03MI 1-01 * C TM11-02 2 CABLE 55 WRE A04MI 1-02 * C TM11-02 1 CABLE 55 WRE B1UEI 1-03 * TM11-07 1 P=0/8 55 WRE 1 1-03 * TM11-07 1 P=0/8 55 WRE 1 1-03 * TM11-07 1 P=0/8 55 WRITE U A15UI 1-02 * TM11-11 1 1 P=0/8 55 WRITE U A22N2 1-03 * TM11-07 1 P=0/8 56 WRITE ENB H A22S2 1-02 * TM11-07 1 P=0/8 56 WRITE ENB H B2BI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB H B2BI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-02 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-02 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-02 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 56 WRITE ENB U B05RI 1-03 * TM11-07 1 P=0/8 F0/8 F0/8 F0/8 F0/8 F0/8 F0/8 F0/8 F	ang a an ang katha na ang kalala ang ang ang ang ang ang ang ang ang an	558
WRITE		
WRITE   L A10L1   1-02 * TM11-11   1   56   1   1-03 * TM11-07   1   1   1   1   1   1   1   1   1		337
WRITE   L A10L1   1-02 * TM11-11   1   56   1   1-03 * TM11-07   1   1   1   1   1   1   1   1   1	41531	560
WRITE WRITE U A22N2   1-03 # TM11=07   8=6/8   56  WRITE ENB		560
WRITE ENB       H       A2781       1=01 #       TM11=16       2       56         WRITE ENB       H       A2282       1=02 #       TM11=07       1       56         WRITE ENB       H       B05R1       1=03 #       TM11=07       2       11=2/8       56         WRITE ENB       L       B05R1       1=01 #       TM11=07       2       1       56         WRITE ENB       L       B05R1       1=02 #       TM11=07       1       56         WRITE ENB       L       B30A1       1=04 #       TM11=07       1       56         WRITE ENB       L       B30A1       1=04 #       TM11=07       1       56         WRITE ENB       L       B29D2       1=05 #       TM11=07       1       23=0/8       56         WRITE ENB       L       B29D2       1=05 #       TM11=07       1       23=0/8       56         WRITE ENB       L       A15K1       1=01 #       TM11=07       1       23=0/8       56         WRITE ENB       L       A15K1       1=01 #       TM11=07       1       23=0/8       56         WRITE ENB       L       A15K1       1=02 #       TM11=07 <t< td=""><td></td><td>560</td></t<>		560
WRITE ENB       H       A2781       1=01 * TM11=16       2       56         WRITE ENB       H       A2282       1=02 * TM11=07       1       56         WRITE ENB       H       B26R1       1=03 * TM11=07       2       11=2/8       56         WRITE ENB       L       B05P1       1=01 * TM11=07       2       56       56         WRITE ENB       L       B05R1       1=02 * TM11=07       1       56       56         WRITE ENB       L       B30A1       1=04 * TM11=07       1       56       56         WRITE ENB       L       B30A1       1=04 * TM11=07       1       56       56         WRITE ENB       L       B29D2       1=05 * TM11=07       1       23=0/8       56         WRITE ENB       L       B29D2       1=05 * TM11=07       1       23=0/8       56         WRITE ENB       L       A15K1       1=01 * TM11=07       1       56         WRITE ENB       L       A22P2       1=02 * TM11=07       1       56         WRITE ENB       L       A15K1       1=01 * TM11=07       1       56         WRITE ENB       L       A15K1       1=02 * TM11=07       2       56<		560
NRITE ENB H A22S2 1=02 * TM1=07 1 56 WRITE ENB H B2GRI 1=03 * TM11=07		
WRITE ENB  WRITE ENB  U BOSPI 1-01 # TM11-07 2 56  WRITE ENB U BOSRI 1-02 # TM11-07 1 56  WRITE ENB U BOSRI 1-03 # TM11-07 1 56  WRITE ENB U BOSRI 1-03 # TM11-07 1 56  WRITE ENB U BOSRI 1-03 # TM11-07 1 56  WRITE ENB U BOSRI 1-03 # TM11-07 1 56  WRITE ENB U BOSRI 1-03 # TM11-07 1 56  WRITE ENB U BOSRI 1-05 # TM11-07 1 56  WRITE ENB U BOSRI 1-04 # TM11-07 1 56  WRITE ENB U BOSRI 1-01 # TM11-07 1 56  WRITE EOF U A15KI 1-01 # TM11-07 2 56  WRITE EOF U BOSRI 1-02 # TM11-07 1 56  WRITE EOF U BOSRI 1-03 # TM11-07 1 56		561
WRITE ENB       1       11-2/8       56         WRITE ENB       L       805P1       1-01 ** TM11-07       2         WRITE ENB       L       805R1       1-02 ** TM11-07       1       56         WRITE ENB       L       830A1       1-03 ** TM11-07       2       56         WRITE ENB       L       830A1       1-04 ** TM11-07       1       56         WRITE ENB       L       829D2       1-05 ** TM11-17       2       23-0/8       56         WRITE ENB       L       A15K1       1-01 ** TM11-07       1       23-0/8       56         WRITE EOF       L       A15K1       1-01 ** TM11-07       1       56         WRITE EOF       L       A22P2       1-02 ** TM11-07       2       56         WRITE EOF       L       830K2       1-03 ** TM11-07       1       56		564
WRITE ENB L BOSP! !=01 * TM11=07 2 56  WRITE ENB L BOSR! !=02 * TM11=07 1 56  WRITE ENB L B265! !=03 * TM11=07 2 56  WRITE ENB L B3UA! !=04 * TM11=07 1 56  WRITE ENB L B29D2 !=05 * TM11=17 56  WRITE ENB L B29D2 !=05 * TM11=17 56  WRITE ENB L B29D2 !=05 * TM11=07 1 56  WRITE EOF L A15K! !=01 * TM11=07 1 56  WRITE EOF L A22P2 !=02 * TM11=07 2 56  WRITE EUF L B3UK2 !=03 * TM11=07 1 56		561
WRITE ENB L BOSRI 1=02 * TM11=07 1 56 WRITE ENB L BOSRI 1=03 * TM11=07 2 56 WRITE ENB L BOOKI 1=04 * TM11=07 1 56 WRITE ENB L B29D2 1=05 * TM11=17 56 WRITE ENB L B29D2 1=05 * TM11=17 56 WRITE ENB 1 1=01 * TM11=07 1 56 WRITE EOF L A15KI 1=01 * TM11=07 1 56 WRITE EOF L A22P2 1=02 * TM11=07 2 56 WRITE EUF L BOOK2 1=03 * TM11=07 1 56	11-2/8	501
WRITE ENB L BOSRI 1=02 * TM11=07 1 56 WRITE ENB L BOSRI 1=03 * TM11=07 2 56 WRITE ENB L BOOKI 1=04 * TM11=07 1 56 WRITE ENB L B29D2 1=05 * TM11=17 56 WRITE ENB L B29D2 1=05 * TM11=17 56 WRITE ENB 1 1=01 * TM11=07 1 56 WRITE EOF L A15KI 1=01 * TM11=07 1 56 WRITE EOF L A22P2 1=02 * TM11=07 2 56 WRITE EUF L BOOK2 1=03 * TM11=07 1 56	100P1	662
WRITE ENB U B2681 1-03 # TM11-07 2 560 WRITE ENB U B3UA1 1-04 # TM11-07 1 560 WRITE ENB U B29D2 1-05 # TM11-17 560 WRITE ENB U B29D2 1-05 # TM11-17 560 WRITE EOF U A15K1 1-01 # TM11-07 1 560 WRITE EOF U A22P2 1-02 # TM11-07 2 560 WRITE EOF U B3UK2 1-03 # TM11-07 1 560		562
WRITE ENB U BRUNT 1-04 # TM11-07 1 56 WRITE ENB L B29D2 1-05 # TM11-17 56 WRITE ENB L B29D2 1-05 # TM11-17 56 WRITE ENF L A15K1 1-01 # TM11-07 1 56 WRITE EOF L A22P2 1-02 # TM11-07 2 56 WRITE EUF L BRUK2 1-03 # TM11-07 1		562
WRITE ENB L B29D2   1=05 * TM11=17   567   23=0/8   567   56		562
WRITE EOF L A15K1 1=01 # TM11=07 1 56 WRITE EOF L A22P2 1=02 # TM11=07 2 56 WRITE EUF L B3UK2 1=03 # TM11=07 1 56		562
WRITE EOF L A22P2 1=02 # TM11=07 2 562 WRITE EUF L B3UK2 1=03 # TM11=07 1 563	23~0/8	562
WRITE EOF L A22P2 1=02 # TM11=07 2 562 WRITE EUF L B3UK2 1=03 # TM11=07 1 563	化二氯化丁二丁基 化对抗性 医二氯甲二氯甲酚 医皮肤 医多虫 医多种性 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
WRITE EUF L BIOK2 1-03 * TM11-07 1		56.4
		563
		563 563

<b>©</b>	TM11.T RUN NAME				NDZ88.V2 PIN NAME	2(22) URDE PIN	R	06//3 BAY = ORDER	Q	ĐR	AW RI	V PO	3 Y	X	Z	REMARKS	8-JUL-74 Length	8151 EXCEPTIONS	PAGE 67 RUN NUMBER	
•						1				-										
	WRITE XIRO			ե	ALSNI			1=01 +			11-0				1				564	V ·
	WRITE XIRG			ان را	ALGMI A22R2			1-02 4			11-11		rice of the		<i>7.</i> 1				564 564	
•	WRITE XIRO			L	BBOMT.			1-04			11-0		\$11.75		•				564	
	WRITE XIRG			•				1			•••						15=6/8		564	*,
<b>₩</b>	WRL		•	1	SHCOA			1-01 +	<b>#</b>	TM	11-0	8			1			TERM HERE?	565	
	WRL		and the second second		B04L2			1-02	+ C		11-03				2			CABLE	565	· .
**	WRL				B0362			1-03 4	t C	TM	11-03	2	4					CABLE	565	
	WRL	· · · · · · · · · · · · · · · · · · ·					in a second	1	:								8-4/8		565	
*	₩RL			н	A27A1			1-01 4	<b>t</b>	TM	11-10	6			1			TERM HERE?	566	
-	WRL			H	V0275			1=02			11-0				2				566	
	WRL			Н	B06J1		100	1=03			11-12				1 1				566	
<b>**</b>	WRL			H	BORNT			1-04	t C	TM	11-0	3	1-1-1-1	ir Potesti				CABLE	566	
	WRL							. I .		٠.					4.7		22-0/8		566	
•	WRS				B03D2	* 1		1-01 4	F C	TM	11-07	2			2			CABLE	567	Park to the first
	WRS				60402			1-02			11-03				1			CABLE	567	
- <u>z</u>	WRS			1	B26P2			1-03 4	ł	TM	11-00	8						TERM HERE?	567	
SPECIAL STATES	WRS							1									16-4/8		567	
10	WRS			11	B14J1			1-01 4	<b>K</b>				R1		1				568	4 * * *
<b>6</b> 10	WKS			Ħ	81482			1-02	ŕ				₹1		2			And the second s	568	* * *
	WRS			Н		4		1-03					R1		1				568	
Ž	WRS			. ! !	B26R2			1-04					₹1		2				568	
	WRS		1.	Н	B22R1			1-05	•			1	I			e de la companya de	18-6/8		568	• •
3	WRS							•									10-0/8		568	1.
*	WRT DATA F			H	ATONI			1-01 +				ŀ	R1		1				569	
	WRT DATA			Н	ALOMS			1-02			- 4		k1 .		2				569	:
	WRT DATA B			Н	A23H2	-		1-03 4	<b>F</b>			. }	R1 .				$\alpha = A A \alpha$	•	569 560	•
(3)	WRT DATA	5 IN 13	**													•	8-4/8		569	
	WXG				AOBUL			1-01 +			11-02				2			CABLE	570	
•	MXG				A04J1			1-02			11-03		1		1			CABLE	570	
	WXG	•			B3081			1-03	<b>!</b>	TM	11-0	7					40-440	TERM HEFE?		
is n	WXG							1									19=4/8		570	
•	80									•						•				
. (	D										-									

MAYNARD, MASSACHUSETTS ENGINEERING SPECIFICATION DATE May 3, 197 TITLE TM11 BPECIFICATION REVISIONS DESCRIPTION APPD BY REV ICHG NO ORIG DATE DATE TMII -00008 Ā FRITZ 6-25-71 m. Fox 6-30-71 В NUMBER TM11-Ø-25 REV SIZE CODE Malcolm Fritz DEC FORM NO. DRA 107 SHEET 1

ENGINEERING SPECIFICATION

TITLE TM11 SPECIFICATION

DEC FORM NO 75-1022 DRA 108

DIGITAL EQUIPMENT CORPORATION

# 1. INTRODUCTION The magnetic tape control unit interfaces the TUIØ (positive bus The magnetic tape control unit interfaces the TUIØ (positive bus version) to the PDP-11. Figure 1 shows the system block diagram which includes the PDP-11, the control unit, and up to eight TUIØ magnetic tape units. One tape unit is referred to as the master, and all others in the system as slaves. Each tape unit, master and slave, consists of the TUIØ cabinet, reel and reel motor control, capstan drive and read/write mechanical and electrical components, The master contains in addition, that section of the magnetic tape electronic for the spared by all tape units. This includes electronics for which is shared by all tape units. This includes electronics for starting and stopping any tape unit, read and write pulses, gapping electronics, and parity generation and checking. Electronics may be shared because only one tape unit at a time may communicate with the The control unit is located in the cabinet of the master. Its modules are contained in the 1943 rack which is mounted below the tape unit. An indicator panel which contains a maintenance module is located below the tape unit. An indicator panel which contains a maintenance module is located below the tape unit. An indicator panel which contains a maintenance module is located below the 1943 rack. The maintenance module contains 28 lights (12 for the command register and 16 for the status register) and a power clear toggle switch. Table lishows the interface signals between the control unit and the master. Each signal is accompanied by its appropriate definition. The control unit contains 6 addressable registers which are indicated below along with their respective bus addresses. 77252Ø STATUS REGISTER (MTS) COMMAND REGISTER (MTC) BYTE RECORD COUNTER (MTBRC) CURRENT MEMORY ADDRESS REGISTER (MTCMA) 772522 772524 772526 77253Ø DATA BUFFER (MTD) 772532 TUIØ READ LINES (MTRD) In addition, the control unit contains a bus request interrupt whose vector aidress is 224 and whose bus request level is BR5. 1.1 MARMETIC TAPE FORMAT The control unit services both 9 and 7 channel magnetic tage units. A nine channel tage record is followed by three blank character spaces. A CRC characther, three additional blank characters, and an LPC character. A seven channel record is followed by three blank character spaces and an LPC character. SP TM11-Ø-25

**CONTINUATION SHEET** 

SHEET \_3 OF \_23

**ENGINEERING SPECIFICATION** CONTINUATION SHEET TITLE TM11 SPECIFICATION TABLE OF CONTENTS 1. Introduction 1.1 Magnetic Tape Format 2. Control Unit Register 2.1 Command Register (MTC) and Status Register (MTS) 2.1.1 General 2.1.2 Operation 2.1.2.1 Bus Request Interrupt - BR 2.1.2.2 Non Processor Request - MPR 2.1.2.3 Rewind 2.1.2.4 Initialize 2.2 Status Register 2.2 Status Register
2.2.1 Bit Control
2.2.2 Tape Unit Ready - TUR
2.2.3 Rewind Status - RWS
2.2.4 Write Lock - WRL
2.2.5 Settle Lown - SDWN
2.2.6 Seven Channel - 7CH
2.2.7 Beginning of Tape - BOT 2.2.4 Write Lock - WRL
2.2.5 Settle Lown - SDWN
2.2.6 Seven Channel - 7CH
2.2.7 Beginning of Tape - BOT
2.2.8 Select Remote - SELR
2.2.9 Non-Existent Memory - NXM
2.2.10 Bad Tape Error - BTE
2.2.11 Record Length Error - RLE
2.2.12 End of Tape - EOT
2.2.13 Bus Grant Late - BGL
2.2.14 Parity Error - FAE
2.2.15 Cyclical Redundancy Error - CRE
2.2.16 End of File - EOF
2.2.17 Illegal Command - ILC
2.3 Command Register - MTC 2.2.9 2.2.10 2.2.11 2.2.13 2.2.15 2.3 Command Register - MTC 2.3.1 Bit Control 2.3.2 Go Pulse Function Bits
Extended Memory Bits - Adrs 16,17 2.3.3 Interrupt Enable - INT ENB Control Unit Ready - CU READY 2.3.5 Unit Select Bits
Even Parity - PEVN
Power Clear - PCLR
Density - DEN5 AND DEN8 2.3.8 2.3.9 2.3.10 2.3.11 Core Dump 2.3.12 Error - ERR
2.4 Byte Record Counter - MTCMA
2.5 Gurrent Hemory Address Register - MTCMA
2.6 De'a Buffer - MTD
2.7 TUIØ Read Lines - MTRD 2.7.1 Timer .8 Additions 2.8 CODE SP NUMBER TMl.1-Ø-25 BEV DEC FORM NO 16-1022 DRA 108 OF 23

TITLE TM11 SPECIFICATION 2. CONTROL UNIT REGISTERS The mix registers used in the MTCU are the following: COMMAND REGISTER (MTC) STATUS REGISTER (MTS)
BYTE RECORD COUNTER (MTBRC) CURRENT MEMORY ADDRESS REGISTER (MTCMA)
DATA BUFFER (MTD) TULØ READ LINES (MTRD) 2.1 COMMAND REGISTER (MTC) AND STATUS REGISTER (MTS) 2.1.1 GENERAL The formats for the command and status registers are shown in Figure 3. The three select bits, Unit Sel Bit Ø, Unit Sel Bit 1 and Unit Sel Bit 2, are used to select one out of eight possible magnetic tape units. All operations defined in the MTC and all status conditions defined in the MTS pertain to the MTU indicated by the three MTS pertain to the MTU indicated by the three select bits. Bit \$\vec{\phi}\$ of the MTC begins the operation defined by function bits \$\vec{\phi}\$, 1 and 2. The eight functions as defined by the three function bits are listed below in the order of function decodes with function bit \$\vec{\phi}\$ the least OFF LINE READ WRITE WRITE EOF SPACE FORWARD SPACE REVERSE
WRITE WITH EXTENDED INTERRECORD GAP 7 REWIND In the functions read, write, write EOF, and write with extended IRG, the MTU alvances in the forward direction one record. The EOF character and its associated LPC character is considered one record. In a associated by character is constant one of the space forward operation, the MTU advances in the forward direction a specified number of records, the number determined by the byte record counter. In a space reverse operation, the MTU moves in the reverse direction a specified number of records, the number also determined by the byte record counter. In a rewind operation, the tape reverses at a higher speed than that for the other functions and stops on the BOT marker. The OFF line operation SIZE CODE A SP

**ENGINEERING SPECIFICATION** 

SHEET \_4 OF

SHEET

**CONTINUATION SHEET** 

TM11 SPECIFICATION

furns the tape unit OFF line and a rewinds the tape. While the tape unit is OFF line, the control unit may not write onto nor read from the tape. In addition, the tape unit must be in the OFF line state in order to remove the tape reels. In a write, write EOF, and write with extended IRG, the data portion of the record is transferred from core memory onto the tape. In a write EOF and write with extended IRG, a three inch segment of tape is erased prior to writing the first character. The characters following the data (CRC and LPC for a nine channel tape and LPC for a seven channel tape) are generated and written by the master.

In a read operation, the data portion of the record is transferred into memory; i.e. the CRC and LPC characters are not transferred into memory. Functions rewind, space forward, and space reverse are used for tape positioning only and do not affect the tape or core memory. tape or core memory.

### 2.1.2 OPERATION

Figure 2 shows a timing diagram of the four basic states in a magnetic tape operation, when the processor sets the GO bit. The operation defined by the function bit occurs. In addition, oth the CU ready and TUR bits become \$\mathscr{g}\$.

Fo all tape forward commands, the mastr transmit a CRCS and LPCS at the end of each record for a nine channel tape, and LPCS at the end of each record for a seven channel tape. For write, write EOF, or write with extended IRG operation, the control unit sends the level WDR (WRITE DATA READY) for all characters in the record. After the last WRS pulse, the control unit lowers the level on WDR. The master them writes the CRC character (if required) and the LPC character onto the tape. onto the tape.

The master also transmits the CRCS and LPCS pulses to the control unit when it reads the CRC and LPC characters it had just written.

After the master reads the LPC character, it times through the GAP shoutdown period. The purpose of the GAP shutdown period is to ensure a 3/4 inch GAP between records. The master then sends a stop command to the tape unit which then enters its settling down

SIZE CODE SP

NUMBER

SHEET

TM11-Ø-25

REV

OF \_23

DEC FORM NO 16-1022 DRA 108

**ENGINEERING SPECIFICATION** 

: विभेष्यचः :

**CONTINUATION SHEET** 

TITLE TM11 SPECIFICATION

Thus, octal 23 on a 9 channel tape has tracks  $\emptyset$ , 1 and 4 marked, while octal 17 on a 7 channel tape has tracks  $\emptyset$ ,1,2 and 3 marked.

An EOF character and its corresponding LPC character An EOF character and its corresponding LPC character constitutes a record. Thus, when a read command is given and an EOF character is read, the tape unit enters the GAP shutdown period after the LPC character following the EOF character is detected. In reading an EOF character, the EOF bit in the MTS and the ERR bit in the MTC becomes a one when the EOF bit is detected. Also, both the EOF character and its corresponding LPC character are loaded into consecutive memory locations, as determined the MTBRC.

During a space forward and space reverse operation, the tape unit begins to stop during the SDWN time following detection of either the EOF character or

When the OFF line command is given, the tape unit goes off line and then rewinds to the BOT marker. At the start of the OFF line command, the CU ready and TUR bits become \$\mathscr{\theta}\$, when the tape unit goes OFF line, the master sets the select remote bit in the MTS to A \$\mathscr{\theta}\$.

A programming restriction is that a read operation should not follow directly after a write operation without at least one intervening tape moving operation. A record which is written on tape may be read after first issuing a space reverse command.

Other programming restrictions occur when using select remote along with tape unit ready. The select remote lines for all tape units which are not addressed are at Ø. A tape operation may be addressed are at \$\vec{\textit{0}}\$. A tape operation may be performed only on a selected tape unit and one whose SELE line is a 1. Thus, whenever a command is sent to a different tape unit from the one presently indicated by the unit select bits, the SELE line becomes \$\vec{\text{0}}\$ almost immediately (less than one instruction time later) and becomes a 1 about 1\$\vec{\text{microseconds}}\$ later. Shortly thereafter (less than one instruction time later) the TUR reading on the selected unit is valid. Thus, in programming, the SELE bit may be examined immediately after a command is sent to a different Thus, in programming, the SELK bit may be examined immediately after a command is sent to a different tape unit from the one indicated by the unit select bits. When SELR reads A 1, then TUR may be examined to determine the end of the tape operation. When a command

SIZE CODE

NUMBER REV TM11-Ø-25

SHEET \_7\_ OF 23

**ENGINEERING SPECIFICATION** 

CONTINUATION SHEET

TM11 SPECIFICATION

period. The SDWN bit becomes a 1 during the settling down period. When the tape unit stops, it enters its idle period and the TUR bit becomes a 1.

In a tape reverse operation (not rewind) the master enters the GAP shutdown period immediately after the first data character passes under the read head. The settling down period then follows the GAP shutdown

10000

In a tape forward command of one record (READ, WRITE, WRITE EOF, and WRITE with EXTENDED IRG) the CU READY bit becomes a 1 when the first LPC character is read. In a space forward and space reverse operation, the CU ready bit becomes a 1 at the start of an LPCS time in conjunction with spacing the required number of records. At the start of each SDWN time, the tape unit begins to slow down. Thus, for space forward and space reverse operations, a new GO command is automatically sent to the tape unit at the start of each SDWN time if the required number of records has each SDWN time if the required number of records has not yet been spaced.

The master will accept and execute any new command during the SDWN period except if the new command is to the same tape unit as the one issuing SDWN and if the direction implied in the new command is opposite the direction implied in the new command is opposite to the present direction. For the above exception, the master will accept the new command only after the tape unit has stopped, i.e.; SDWN a Ø and TUR a l. The control unit accepts as legal all commands it receives while the CU ready bit is a l, which includes commands received during the GAP shutdown or tape settling down periods. Thus, commands received during the GAP shutdown or settling down periods are buffered and transmitted to the master at the appropriate time as specified above.

For the operations write EOF and write the extended IRG, a three inch GAP is erased prior to writing the required characters.

For a write EOF command, the master writes an octal 23 followed by an LPC of octal 23 for a 9 channel tape or an octal 17 followed by an LPC of octal 17 for a 7 channel tape. On a 9 channel tape, the data tracks are designated \$\phi-7\$, with track \$\phi\$ the least significant and track 7 the most significant; while on a 7 channel tape, the data trancks are designated \$\phi-5\$ with track \$\phi\$ the least significant and track 5 the most significant.

SIZE CODE Α

NUMBER

**CONTINUATION SHEET** 

TM11-Ø-25

В 23 SHEET \_6\_\_ OF

REV

DEC FORM NO 16-1022 DRA 108

September 1

**ENGINEERING SPECIFICATION** TITLE TM11 SPECIFICATION

is to the same tape unit as the one indicated by the unit select bits, the SELR line remains at a 1. the TUR line be a 1 prior to receiving the command, it would remain a 1 for approximately 1\$\beta\$ microseconds. The CU ready bit, however, goes low immediately after the command is generated by the program. Thus, it may be advisable for the program to utilize both the CU ready and TUR bits to determine when for example to issue a new command in the reverse direction to the same tape unit as the one indicated by the unit select bits.

Any command received during the GAP shutdown time which is to a different tape unit from that of the previous command or is in the same direction as previous command or is in the same direction as that in the previous command will be transmitted at the start of settle down time. Any command received during the GAP shutdown time which is both to the same tape unit and in the opposite direction as that of the previous command will not be transmitted until the end of settle down time. Any command received during settle down time will not be transmitted until the end of settle down time.

the one indicated by the unit select bits

2.1.2.1 BUS REQUEST INTERRUPT - BR

A bus request interrupt occurs under the following conditions!

- The CU ready bit changes from 0 to 1 when the INT ENB bit is a 1.
- The ERR bit changes from Ø to 1 when the INT ENB is a 1.
   The INT ENB bit changes from
- the GO bit remains at Ø.
- The tape unit indicated by the unit select bity in the MTC completes its rewind operation before a new command to tape unit has been received.

2.1.2.2 NON-PROCESSOR REQUEST - NPR

The control unit generates an NPR whenever it transfers data between the data buffer and core memory. In a read operation, the core memory. In a read operation, the direction of transfer is from the data buffer to core memory. The RDS pulse, which

TM11-Ø-SHEET \_8 OF \_2|3

DEC FORM NO 16-1022 DRA 108

### ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE TM11 SPECIFICATION

is used to strobe the data from the tape unit into the data buffer, is used to generate the MPR to the processor. When the request is granted, the control unit performs a DATO and transfers a byte from the data buffer into core memory. In a write, or write with extended IRG, the NPR is generated by the WRS (WRITE STROBE) pulse from the processor. When the request is granted, the control unit performs a DATI and transfers a byte from core memory into the data buffer. For both read and write operations, the address in core memory is is used to strobe the data from the tape the data buffer. For both read and write operations, the address in core memory is determined by the current memory address register (MTCMA).

#### 2.1.2. REWIND

When the control unit issues a rewind command to the master, the CU ready bit becomes a  $\emptyset$ . When the master detects the GO bit, it places TUR at a  $\emptyset$ . As soon as the tape unit begins to rewind, the master sets the RWS bit in the MTS to a 1. The CU ready bit then becomes a 1. The tape unit rewinds at a higher speed that that for a normal tape operation. When the BOT marker is detected, it begins to slow down. It comes to a complete stop at a point well beyond the BOT marker and then moves forward again until the BOT marker is again detected, whereupon, it comes to a final stop. SDWN becomes a 1 as soon as the marker is detected while the is moving in the forward direction. When the tape unit comes to its final stop, SDWN becomes a Ø and TUR becomes

#### 2.1.2.4 INITIALIZE

The control unit and the tape units are initialized by the following means:

- 1. Reset instruction from the processor.
- By depressing the processor start switch. By a power fail, either by the

processor power supply or by the control unit power supply.

SIZE CODE

NUMBER

DEC FORM NO : 5-1022 DRA 108

SHEET 9 OF 23

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE TM1 SPECIFICATION

produce a 1 in the ERR bit.

2.2.8 SELECT REMOTE - SELR

The SELR bit is a  $\emptyset$  when the tape unit addressed does not exist, is off line, or has its power turned off.

2.2.9 NON-EXISTENT MEMORY - NXM

Non-existent memory error occurs in NPR operations when the control unit is bus master, and is performing data transfers into and out from the bus. The error occurs when the control unit does not receive a slave SYNC signal within 10 microseconds after it had issued a master SYNC signal. The ERR bit set simultaneously with NXM, thus terminating the operation. If the NXM occurred during a write or write with extended IRG operation, the control unit does not send the signal WDR to the master, while the master writes the CRC character (if required) and LPC character onto the tame. tape.

2.2.16 BAD TAPE ERROR - BTE

Bad tape error occurs when a character is detected (RDS PULSE) during the gap shutdown or settling down period for all operations except rewind. ((In a write, write EOF, or write with extended IRG operation.))both the BTE and ERR bits set immediately upon detection of bad tape. #For both a read a space operation, the BTE bit sets immediately upon detection of bad tape. A new GO command is sent to the tape unit and the ERR bit sets upon detection of the next LPC character. If a bad tape error is again found during the GAP shutdown or settle down period, a new GO command is issued. The process of reissuing GO commands is continued until a true GAP is discovered whereupon the tape unit stops.

For a read operation, the MTBRC increments continuously and words are read into memory until the MTBRC overflows. For a space operation, the MTBRC stops incrementing as soon as BTE occ. rs. When the first true GAP is discovered, the tens unit atoms recording. the tape unit stops regardle

It is not possible to artificially generate bad tape. Therefore, for diagnostic purposes, bad tape may be indicated by setting the CU ready bit prematurally, and thereby producing the gap shutdown period while the data is still being read. CU ready sets by a logic 1 on bit 15 of the address indicated by the TUIG read lines.

SIZE CODE

NUMBER TM11-Ø-25

DEC FORM NG 16-1022 DRA 108

SHEET 11 OF 23

**ENGINEERING SPECIFICATION** 

CONTINUATION SHEET

TITLE TM11 SPECIFICATION

- 4. By the clear switch in the maintenance
- module. 5. By loading a 1 into bit 12 of the MTC.

1 clears all units in the system except the processor. 2 and 3 clear all units in the system except the system including the processor and all peripherals. 4 and 5 clear only the control unit and tape units.

2.2 STATUS REGISTER

2.2.1 BIT CONTROL OF THE MTS

BITS 0-6 and BIT 14 are set and cleared exclusively by the master. BITS 7-13 and 15 are set by the appropriate error condition and cleared by initialize, and by the GO pulse to the tape unit.

2.2.2 TAPE UNIT READY - TUR

The TUR bit is a 1 whenever the SELR bit is a 1 and the tape unit is not in motion.

2.2.3 REWIND STATUS - RWS

The RWS bit becomes a 1 at the start of a rewind operation, and becomes a  $\emptyset$  as soon as BOT is detected while the tape is moving in reverse.

2.2.4 WRITE LOCK - WRL

The WRL bit at a 1 prevents the control unit from writing information on tape.

2.2.5 SETTLE DOWN - SDWN

The SDWN bit is a 1 whenever the tape unit that is on line is slowing down. The exception occurs in a rewind operation in which the tape unit begins its initial stop while moving in the reverse direction.

2.2.6 SEVEN CHANNEL - 7CH

The 7CH bit at a 1 indicates a 7 channel tape unit, and the 7CH bit a Ø indicates a 9 channel tape unit.

The BOT bit is a 1 when the BOT marker is read, and a Ø when the BOT marker is not read. BOT at a 1 does not

SIZE CODE A SP

NUMBER REV TM11-Ø-25

DEC FORM NO 16-1022 DRA 108

SHEET \_10\_ OF \_23\_

**ENGINEERING SPECIFICATION** 

**CONTINUATION SHEET** 

TITLE TM11 SPECIFICATION

If bit 13 sets during a record for either a read or a write operation, bad tape error is indicated.

2.2.11 RECORD LENGTH ERROR - RLE

Record length error is detected only during a read operation. It occurs for long records only and is indicated as soon as the MTBRC increments beyond Ø, at which time both data transfer into memory and incrementing the MTCMA and MTBRC stop. The ERR bit sets when the LPC character is read. CU ready remains at Ø until the LPC character is read.

2.2.12 END OF TAPE - EOT

The EOT bit becomes a 1 as soon as the same EOT marker is read while the tape is moving in the forward direction. The EOT bit becomes a  $\emptyset$  as soon as the same point is read while the tape is moving in the reverse direction.
The ERR bit, as a result of the EOT bit at a 1, sets
only in the tape forward direction and coincidently with the reading of an LPC character.

2.2.13 BUS GRANT LATE - BGL

A bus grant late error occurs when the control unit after issuing a request for the bus, does not receive control request for the following tape character. The condition is tested only for NPR (NON-PROCESSOR REQUEST) operations. The error is indicated when an MPR bus request has not been answered before the next WRS pulse a bus grant before the for a write operation, or an RDS pulse for a read operation is received by the control unit. The operations which occur when the error is detected are identical to those indicated for the MXM error.

2.2.14 PARITY ERROR - PAE

Parity error is the OR of the lateral and longitudinal parity errors. A lateral parity error is indicated on any character the record while a longitudinal parity error occurs only when the LPC character is detected. A lateral parity error does not affect the transfer of data; that is, in a write operation, the entire record is transferred to tape and in a read operation, the entire record is written into core memory. Also, for both parity erroa, the ERR bit sets only when the LPC character is detected.

SIZE CODE

TM11-Ø-25

DEC FORM NO 16-1022 DRA 108

SHEET \_12 OF 23

Both lateral and longitudinal parity errors are detected during a read, write, and write with extended IRG operations. The entire record is extended IRG operations. The entire record is checked including the CRC and LPC characters. Longitudinal parity error occurs when an odd number of 1's is detected on any track in the record. A lateral parity error occurs when an even number of 1's is detected on any character when PEVN is a \$\vec{\pi}\$, or an odd number of 1's is detected on any character when PEVN is a \$\vec{\pi}\$.

2.2.15 CYCLICAL REDUNDANCY ERROR - CRE

Cyclical redundancy error is detected during a read or a write operation. It compares the CRC character written on a 9 channel tape during a write or write with extended IBG operation with the CRC character generated during a read operation. If they are not the same, CRCE from the tape unit becomes a 1 which forces the CRE bit to a 1, however, the ERR bit does not become a 1 until the LPC character is detected. detected.

2.2.16 END OF FILE - EOF

An EOF character is detected during a read, space forward or space reverse operation. During the read or space forward operation, the EOF bit is se when the LPC character following the EOF character is read. During a space reverse operation, the E bit is set when the EOF character following its LPC character is read. The ERR bit sets when the LPC character is the EOF character is detected.

2.2.17 ILLEGAL COMMAND - ILC

- Any DATO or DATOB to the MTC during the tape operation period (CU ready bit a Ø).
   A WRITE, WRITE EOF, or WRITE WITH EXTENDED IRG operation when WRL is a Ø.
   A COMMAND to a tape unit whose SELR bit is
- a \$.

  The SELR bit becoming a \$\sqrt{g}\$ during an operation other than in OFF Line Command.

than in our line tommand, it shows, the command is loaded into the MTC, but the GO pulse to the tape unit is not generated. In all 5 of the above error conditions, the ILC and ERR bits occur simultaneously.

2.3 COMMAND REGISTER

SIZE COOE

B

DEC FORM NO 18-1022 DEL 108

SHEET 13 OF 23

## ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE TM11 SPECIFICATION

to the tape unit. An interrupt also occurs on an instruction that changes the INT ENB bit from  $\emptyset$  to 1 and does not set the GO bit.

2.3.6 CONTROL UNIT READY - CU READY

The CU ready bit becomes a Ø at the beginning of all tape operations. It becomes a l when the first LPC character is detected for a read, write, write EOF, and write with extended interrecord GAP operations. It becomes a l for space forward and space reverse operations when the LPC character is detected in conjunction with spacing the required number of records. It also becomes spacing the required number of recrods. It also become a 1 when SELR becomes a Ø for an OFF LINE operation and when RWS becomes a 1 for a rewind operation. It also becomes

2.3.7 UNIT SELECT BITS

The unit select bits are defined in section 2.1.1

2.3.8 EVEN PARITY - PEVN

PEVN is a 1 when the master writes even lateral parity on tape and when the master reads even lateral parity from tape. PEVN is a  $\emptyset$  when the master writes odd lateral parity on tape, and when the master reads odd lateral parity from tape. A search for parity error is made in all tape moving operations except space forward, space reverse, and rewind.

2.3.9 POWER CLEAR - PCLR

Power clear provides the means for the processor to clear the control unit and tape units without clearing any other device in the system. The PCLR bit is always read back by the processor as a  $\emptyset$ .

2.3.10 DENSITY DEN 8 AND DEN 5

The combinations of b definitions ar given below:

DEN 8 DEN 5

200 BPI 7 CHANNEL 556 BPI 7 CHANNEL 800 BPI 7 CHANNEL 800 BPI 9 CHANNEL

SIZE CODE A SP

**TM11-Ø-25** 

SHEET 15 OF 23

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE TM11 SPECIFICATION

2.3.1 BIT CONTROL

Bits number 1-6, 8-11, 13 and 14 are set on a processor DATO when the corresponding data bit on the bus is a 1, cleared on a processor DATO when the corresponding data bit on the bus is a  $\emptyset$ , and cleared on INIT. Bit  $\emptyset$  sets on a processor DATO when data bit  $\emptyset$  on the bus is a 1 and on a processor DATO when data bit 0 on the bus is a 1 and cleared at the time the GO pusise is sent to the tape unit. The normal time duration of bit 0 at a 1 is 1 microsecond. The time may be increased to as long as 10 milliseconds if bit 0 is received during the GAP shutdown or settle down period. Moreover, the time could be several minutes if bit 0 is received for a unit that is rewinding. Bit 0 also clears on the setting of an illegal command and a processor initialize. Bit 7 clears at the start of a tape operation, and sets at the end of a tape operation. In addition, bit 7 sets when ERR becomes a 1 or on INIT. Bit 15 sets as a function of bits 7-15 of the MTS, and clears on the OR of INIT and the GO command to the tape unit. Bit 12 becomes a 1 for 1 microsecond on a processor DATO when the corresponding data bit on the bus is a 1, and is always read by the processor as a 0. and is always read by the processor as a \$.

2.3.2 GO PULSE

The GO pulse is a 1 microsecond pulse and is used to perform the functions indicated by the function bits. The control of the GO pulse is defined in section 2.3.1.

The function bits are defined in section 2.1.1 and in figure 3.

2.3.4 EXTENDED MEMORY BITS - ADRS BIT 16, ADRS BIT 17

Bits 4 and 5 of the MTC correspond to bits 16 and 17 respectively of the bus address. These bits are an extension of the MTCMA, and increment during a tape operation.

2.3.5 INTERRUPT ENABLE - INT ENB

When the INT ENB bit is set, a PR interrupt to vector address 224 occurs whenever either the CU ready bit or the ERR bit change from  $\emptyset$  to 1 or whenever a tape unit that was set into rewind has arrived at the beginning of tape. The latter interrupt occurs only when the unit select lines remain unchanged and when a new command is not stored in the control unit awaiting execution to

SIZE CODE

degeter

NUMBER

DEC FORM NO 16-1022 DRA 108

TM11-Ø-25 SHEET 14 OF 23

CONTINUATION SHEET

**ENGINEERING SPECIFICATION** 

2.3.11 CORE DUMP

TITLE THIL SPECIFICATION

When transferring data between memory and a 7 When transferring data between memory and a 7 channel tape when not in core dump mode, one byte in memory corresponds to one tape character. Because one byte contains 8 bits and one tape character contains 6 data bits, two bits within each byte are not utilized. Bits number 6, 7, 14 and 15 within each 16 bit data word are not utilized in the transfer. In a tape read operation, those bits are forced to f. while in a tape write operation, those bits do not change.

When transferring data between memory and a 7 channel When transferring data between memory and a 1 channel tape when in the core dump mode, one byte in memory corresponds to two characters. Thus, all bits within each byte in memory are used. Bits number 4 and 5, which are the two most significant bits on tape are not utilized.

2.3.12 ERROR - ERR

The ERR bit becomes a l if any of the bits 7 through 15 of the MTS become a l. However, for some types of errors, all of which are indicated below, the ERR bit does not become a l until the LPC character is read in order to allow the operation being executed to be completed. All error bits except EOT are cleared by the next GO command or by the initialize signal. The terror bits are described in section 2.2.

2.4 BYTE RECORD COUNTER - MTBRC

The MTBRC is a 16 bit binary counter which is used to count bytes in a read, write, or write with extended IRG operation, or records in a space forward or space reverse operation. When used in a write or write with extended IRG operation, the MTBRC is initially set by the program to the 2's complement of the number of bytes to be written on tape. The MTBRC becomes Ø after the last byte of the record has been read from memory. Thus, when the next WRS (WRITE STROBE) signal occurs from the master, the control unit will lower the WDR (WRITE DATA READY) line to the master indicating that there are no more data characters in the record.

When the MTBRC is used in a read operation, it is set to number equal to or greater than the 2's complement of the number of tape characters to be loaded into memory. A record length error (RLE) occurs for long records only, and is indicated when a read pulse for data (RDS occurring in th

SIZE CODE SP

NUMBER TM11-Ø-25

DEC FORM NO 16-1022 DRA 108

23 SHEET <u>16</u> OF

DEC FORM NO 16-1022 DRA 108

### **ENGINEERING SPECIFICATION**

**CONTINUATION SHEET** 

TITLE TM11 SPECIFICATION

absence of CRCS and LPCS) occurs when the MTBRC is \$. Beigher the CRC nor the LPC character is read into memory. The MTBEC increments by 1 immediately after each memory

When the MTBRC is used in a space forward or space reverse operation, it is set to the 2's complement of the number of records to be spaced. It is incremented by 1 at LPC time, whether the tape is moving in the forward or reverse direction. A new GO pulse is sent to the tape unit during the SDWE time if the MTBRC is not Ø during that time. When the tape unit is moving in reverse, the LPC character is detected before SDWM, but after the entire record has been traversed. Thus, both SDWM and the LPC character appear to be in different positions on tape from those when the tape unit is moving forward.

The MTREC is available to the processor on a DATI. The bits are set or cleared on a processor DATO. INIT clears all bits in the MTBRC.

#### 2.5 CURRENT MEMORY ADDRESS REGISTER - MTCMA

The MTCEA contains 16 of the possible 18 memory address bits. It is used in NPR operations to provide the memory address for data transfers in read, write, and write with extended IRG operations. Prior to issuing a command, the MTCMA is set to the memory address into which the first byte is loaded in a read operation, or from which the first byte is read in a write; or write with extended IRG operation. he MTCMA is incremented by a immediately after each memory access. Thus, at any instant of time the MTCMA points to the next higher address than the one which had most recently ocen accessed. When the entire record has been transferred, the MTCMA contains the address plus 1 of the last character in the record. For the errer conditions bus grant late (BGL) and non-existent memory (NXM); the MTCMA contains the address of the location in which the failure occurred. The MTCMA is available to the processor on a DATI. The bits are set or cleared on a recessor DATO. INIT clears all bits in the MTCMA.

#### 2.0 DATA BUFFER - MTD

The data buffer is a 9 bit register which is used during a read, write, or write with extended IRG operation. In a read operation, the data buffer is a temporary storage register for characters read from tape before being stored into memory. In a processor read, all nine bits are stored into memory. Bits # thru 7 in memory correspond to channels 7 through # respectively from tape, and bit 8 corresponds to the parity bit. ## an NPR operation only the data bits are read into

SIZE CODE

DEC FORM NO MARKED DRA 108.

NUMBER TM11-Ø-25

SHEET 17 OF 23

ation (1.) **CONTINUATION SHEET** 

ENGINEERING SPECIFICATION TITLE TM1 1 SPECIFICATION

## 2.7.1 TIME:

TIME\* is a 100 microsecond signal with a 50% duty cycle. The signal is used for diagnostic purposes in measuring the time duration of the tape operations. The timer is read as bit 15 in the memory location reserved for the #UlØ read data lines.

## 2.8 ADDITIONS

When the TMll receives commands to write either 1, 2, or 3 characters on tape, it will always write three data characters for the normal mode and four data characters for the core dumn mode. The reason is that the master must write at least two data characters in a 9 channel mode in order to write the CRC and LPC characters, and three data characters in a 7 channel mode in order to write the LPC character. Likewise, if an NXM or BGL error occurs on the first character when writing a record, three characters are written for both the normal mode and core dump mode.

> SIZE CODE TM11-0-25 19 CHEET

OF

**ENGINEERING SPECIFICATION** 

CONTINUATION SHEET

TM11 SPECIFICATION

memory, and are alternately stored into the low and high bytes. In a write or write with extended IRG operation, the data buffer is a temporary storage register for characters read from core memory before they are written on tape. The parity bit is generated by the TULØ master and not by the control unit. The polarity of the parity bit is determined by the PEVN bit in the MTC.

In a read operation, the LPC character enters the data buffer when bit 14 of the address location for the TULØ read lines is a 1, and inhibited from doing so when bit 14 is a \$. Thus, after reading a nine channel tape, the data buffer contains the LPC character when bit 14 is a 1 and the CRC character when bit 14 is a  $\emptyset$ . After reading a seven channel tape, the data buffer contains the LPC character when bit 14 is a 1 and the last data character when bit 14 is a #. After reading an EOF character, the data buffer contains all g's when bit 14 is a 1 and the LPC character when bit 14 is a  $\emptyset$ . The MTD is available to the processor on a DATI. Bits 9 thru 15 are read identically to bits 1 thru 7 respectively. Bits # thru 8 are set or cleared on a processor DATO. Bits 9 thru 15 are not affected by a processor DATO. INIT clears all bits in the

### 2.7 TU1Ø READ LINES - MTRD

The memory location allocated for the TULØ read lines are:

- 1. Bits Ø-7 for channels 7-Ø respectively.
- 2. Bit 8 for the parity bit.
- 3. Bit 12 for the gap shutdown bit
- 4. Bit 13 for the BTE error generation.
- Bit 14 for the CRC, LPC character selector.
- Bit 15 for the timer

For correct longtitudiual parity, bits Ø-8 are Ø after writing a record or reading a record from tape. For a longtitudinal parity error, one or more of the bits \$6-8 remains at a 1, the bit (s) at a 1 indicating the channel (s) containing the error. Bits Ø-8 are set and cleared by the tape unit. Bit 13 is a pulse generated by the processor. Bit 14 is set and cleared by the processor and cleared by INIT. Bits 12 and 15 are read only bits and are not affected by a processor DATO. The MTRD is available to the processor on a DATI except that bit 13 reads back as a Ø.

> SIZE CODE NUMBER TM11-0-25

**ENGINEERING SPECIFICATION** 

**CONTINUATION SHEET** 

TITLE TM11 SPECIFICATION

DEC FORM NO 16-1022

## TABLE 1

SIGNALS FROM MASTER TO CONTROL UNIT

READ DATA SIGNALS FROM MASTER RDØ - RD7 READ PARITY BIT TAPE SETTLE DOWN SDWN TIME BETWEEN STOP COMMAND AND WHEN TAPE UNIT STOPS TUR TAPE UNIT READY TUR IS TRUE WHEN THE SELECTED TAPE UNIT IS STOPPED AND WHEN SELECT REMOTE IS TRUE
SELECT REMOTE - TRUE WHEN UNIT IS SELECTED AND SELR IS ON LINE REWIND STATUS - TRUE WHEN SELECTED UNIT IS REWINDING TRUE WHEN USING 7 CHANNEL OPERATION WRITE LOCK - PREVENTS WRITING ON A TAPE BEGINNING OF TAPE

BOT WRITE STROBE (REQUESTS A CHARACTER FOR WRITING WRS ONTO TAPE.)
READ STROBE - PRESENT FOR BOTH READ AND WRITE OPERATIONS

FILE MARK

CRC STROBE - APPEARS WITH CRC CHARACTER

LPC STROBE - APPEARS WITH LPC CHARACTERS

VERTICAL PARITY CHECK ERROR. SAMPLED WITH RDS.

LONGITUDINAL PARITY CHECK ERROR. SAMPLED WITH LPCS LPCS LPCE

SIGNALS FROM CONTROL UNIT TO MASTER

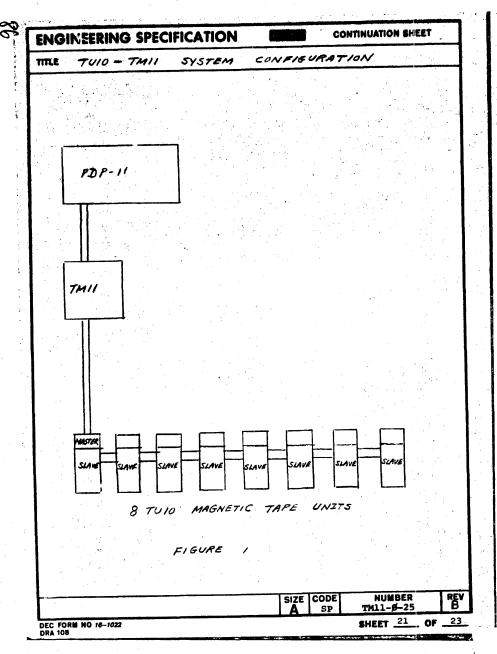
WRITE DATA LINES TO MASTER REQUIRED TO START ANY TAPE OPERATION SET TAPE FORWARD REV RWD REWIND WRE PEVN DEN 8

REWIND
WRITE ENABLE
EVEN PARITY
TRUE FOR 800 BPI 7 TRACK
TRUE FOR 556 BPI 7 TRACK
DEN 8 AND DEN 5 ARE FALSE FOR 200 BPI 7 TRACK
DEN 8 AND DEN 5 ARE TURE FOR 800 BPI 9 TRACK
WRITE FILE MARK
WRITE FILE MARK WXG IS TRUE FOR WFMK AND WRITE WITH EXTENDED INTERRECORD GAP FUNCTIONS
TAPE UNIT SELECT WXG

SELØ, SEL1, SEL2 WRITE DATA READY WDR CINIT INITIALIZE

> SIZE CODE NUMBER TM11-Ø-25 SP SHEET 20 OF

REV B



EN	3IN	IEER	RIN	G S	PECI	FIC/	ATION	ł	170 1		CONTIN	UATIO	N SHEET		•										
TITLE	F	ORM	ATS	5	FOR	5	TATU	5 /	awz)	COP	CNRMP	R	EGISTE.	PS											
		• .	:																	. 4	3				
,					· *	:			· 																
		41.5	: .			57	ATUS	RE	6/57	ER	100		• 1, 1		;	-			*	٠.					
,				· 1																					
						- [						- [	1		•					•			•		
-	-			-			۔ ا	1	-				ا ـ ا	- 1								11			
1	Ŧ	E	R	PA	8	٦	H F	\X	E	3	7 3 1		TUR		•										
1	T L C	F	E	E	8 6 4	EOT	REE	XXA	SELR	BOTA	5.00	W A A	R						**						
1	_	´	-								"				· ·										
-		.	*	. •		. 1	1	. ]	1 1			ı	1 1	1.5			•								
ŀ	.					- 1	. I							45											
L				ليا	L.,.L	<u></u> _			لمنا	<del></del> _		<u>_</u>													
,	15	14	13	12	//	10	9 8	7	6	<b>J</b>	4 3	2 1	10		1										
٠	•		: '	,					• • • •														:		
1			٠.									·		- 1											
						i,						-				. *	<i></i>				100				
			1 :			. , 61 h					1.		7.5			1.			4, 5						
		4.1	٠	ے	OMA	ANI	RE	615T	EP :			**													
	1.						.,			200		- :													
ľ	7		<del></del>	Τ.	11.	U	UU	7	П	-	15	F	FT					100							
- 1	١	.	•		[ " ]	4	リンギュ		1_1	، ا م	4 1 1	N	<b>W</b>	1						1.0			14.		
		D	D	P	P	7			17	2	2 4	5	۱ ۱												
- 1	E	E	E	5	E	5	SES	9	エペナ	3	49201-02	<b>ドリメリナーゥス</b>	400											*	
	ERR	AMX B	DEN 5	PCLR	EVN	DAT DEL BY	SEL BIF 1	RUARY	E ~ B	ADRS BET	ア 子 25 子 27							A.							
-			J .	1		B	BB	2	3	Ŧ   :	847 2	野	BIF	4 X (1)										- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
-					12		テーテ	У		17 1	6 7	7	0								100				
-					100	2	1 0				2	<u>'  </u>				100			•	. "					
	15	14	13	12	11	10	9 8	7	6	5	4 3	2	1.0					100							
						,		× .											* *						
								4,				- 1.						1		-					
	e in		4		•	FIC	SURE	3	· .		•						5.							100	
			'								200		1,44												
٠.	٠.				1 h.	1										. 1									
	_			<del></del>					SIZE	COD	E	NUMBI	ER	REV				100							
									$\perp A$	SP				REV B											,
RA 1	)8	NO 16-	1022	-:	- 2 - 4-1						SHE	ET _2	3_OF.	23											•

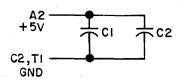
TITLE STATES IN A TAPE FORWARD OFFRATION  CU READY  TU READY  START DELAY  TAPE OPERATION  SETTLE DOWN  IDL6	ENGINEERING	SPECIFIC/	ATION .	can t	NUATION SHEET	
TU READY  START DELAY  TAPE OPERATION  GAP SHUTDOWN  SETTLE DOWN  JDLE	TITLE STATES	IN A TA	PE FORMAZ	OPERATION		
TU READY  START DELAY  TAPE OPERATION  GAP SHUTDOWN  SETTLE DOWN  FDLE						
TAPE OPERATION  GAP SHUTDOWN  SETTLE DOWN  IDLE	TU READY					
1016	TAPE OPERATION					
FIGURE 2						
			igure z			***

DIGITALEQUIPM	ENT CORPORATION ASSACHUSETTS	LEGEND	QUAN	TITY/V/	ARIATION	
	VARE LIST	D DOCUMENT DN DOCUMENT CHANGE NOTICE	TU10		CHECK	
MADE BY -W-Poerer CH DATE /- 4 - 72 DA ENG M. BUCZYNSKI PRO DATE 12/29/71 DA	TE /-//-72	PA PAPER TAPE ASCII PB PAPER TAPE BINARY PM PAPER TAPE READ-IN-MODE	TRACK		CHECK DATE	1 11
NO. DWG NO. / PART NO.	DESCRIPTI	ON	W/9		KIT CH BY	B
1 MAINDEC 11 DZTCA-A	INSTRUCTION SET		хх			
2 MAINDEC 11-DZTMB-A	DATA RELIABILITY - 9 CHANNE		X		<del>                                     </del>	
3 MAINDEC 11-DZTMC-A	DATA RELIABILITY - 7 CHANNE	I.	X	<del>                                     </del>	┦	
4 MAINDEC 11-DZTMD-A	DRIVE FUNCTION TIMER		XX		<u> </u>	
			+++-	<del>                                     </del>		
			++++		╂	
			+++	╂╌┦╌╂╾	╂	
			+++-	╂┸╂╌	╂	
			<del>                                     </del>	╂╌╁╌╁	╂╌╌╂	
			++++		╂	
		· ·	╫╌┼╌┼╌	<del>}}</del>	╂	
			╫╌┼╌┼╌	╂╌╂╌╂╾	╂┈┈╟╴	
			╫┼┼┼	H		
			╫┼┼┼	++-	╂──╂	
			╫┼┼┼		╂──╂	
			╂┼┼┼	HH	╂╌╌╂╴	
			+++	+++	╂──╬	——
			╫┼┼┼	<del>                                     </del>	╫──╫╌	
			╫┼┼┼		╫──╫╸	
	TACOV NO	SIZECODE	NUMBER		I REV. IEC	ONO
TITLE	ASSY. NO.	A SL	TM11-0-28		REV. EC	0 NO 0014
	SHEET   OF	DIST.			1 1	Ĭ

1-0-9£19 B C2 THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY COPYRIGHT 1970 BY DIGITAL EQUIFMENT CORPORATION IC SOCKET DEC 12-09838 TRANSISTOR & DIODE CONVERSION CHART JUMPER MODULE G736 NUMBER SIZE CODE EQUIPMENT CORPORATION B CS G736 - 0 - 1 MAYNARD, MASSACHUSETTS PRINTED CIRCUIT REV. DIST: 324, 434, 435 3

И163-0-1. B C2

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED: PIN 8 ON EACH IC = GND PIN 16 ON EACH IC = +5V EI AND E2 ARE FAIRCHILD 9301 CAPACITORS ARE .OI MFD

N S S S S S S S S S S S S S S S S S S S	DRN. DATE 129/69	TRANSI	STOR & DIOD	E CONVERSIO	N CHART		TITLE DUAL BI	NARY TO	
SVISIONS OHG NO RE OBOOI  A OB	CHK'D DATE	DEC	EIA	DEC	EIA	diğital		DECODER MIC	· 7
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1				ے بنا کی اس ایس ایس ایس ایس			
[[전] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	ENG.					EQUIPMENT CORPORATION		NUMBER - 0-1	REV.
	PROD. DATE					1	<del></del>	<del></del>	1 1
		1	<u> </u>		I		PRINTED CIRCUIT RET		لبلبلل
DEC FORM NO.			A				Dett. 1.24 93	01.436	. 00

DRB 102

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. manufacture or sale of items without written permission.

DRAWING	INIT REL	1	AUT	CON	TAN	IC	WI	RE	TE	STE	? (A	WT)	RE	VIS	ION	S	TAT	US	3	
NUMBER	T17	Т	U	U																
K-WL-TM11-0-23	S	Т	Т	T																_
D-AD-7007261-0-0	*	Α	В	С								1.								
A-PL-7007261-0-0	*	Α	В	С							1	1								
										1	+									
											1	<b>†</b>								
				<del>                                     </del>						_	+	<b>†</b> .					<u> </u>			
		-									+									
	<del>                                     </del>											+	+				<del>                                     </del>	_		
	╁-								++	$\dashv$	+									
	-			<b>-</b>						_	$\dashv$	+	$ar{1}$	<del>                                     </del>				ļ		
	<del>                                     </del>	<u> </u>		-					+	-	+	+	+	<del> </del>				<del>                                     </del>		
	<u></u>	L	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u></u> }_				J	<u> </u>		<u> </u>	<u> </u>	<u> </u>		
N N N N N N N N N N N N N N N N N N N									DRN. ch	oitu	DATE	,4			t a		E Q L		M E N	7
									CHK D	(bed	DATE 7-27- DATE	74 TI	LE			J.	MAYNA	RO. MAE	SACHUSE	TTS
15.3NS GE NO. 100020 1ATFI 00022									PROJ. EN		DATE			Т	MH					
						,			PROD.		DATE			•						
24AN 24AN 24AN 24AN 24AN 24AN 24AN 24AN									FIRST US	ED ON					REVI			ATU		- 1/
			. 17				٠.		TM				E CODE		07	NUMB		)	RE	
\\   \\   \\   \\   \\   \\   \\									SCALE	-//	•	12	. IVV I	1/\	וטנ	~ ~	) I \	_	v	,

DRA 123

DEC 16-(325)-1097-N174

90